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COUNCIL DIRECTIVE of 27 July 1976

on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations

(76/769/EEC)

(OJ L 262, 27.9.1976, p. 201)

Amended by:

<u>▶</u> <u>B</u>

	O	fficial Jour	rnal
	No	page	date
► <u>M1</u> Council Directive of 24 July 1979 (79/663/EEC)	L 197	37	3.8.1979
► <u>M2</u> Council Directive of 22 November 1982 (82/806/EEC)	L 339	55	1.12.1982
► <u>M3</u> Council Directive of 3 December 1982 (82/828/EEC)	L 350	34	10.12.1982
► <u>M4</u> Council Directive of 16 May 1983 (83/264/EEC)	L 147	9	6.6.1983
► <u>M5</u> Council Directive of 19 September 1983 (83/478/EEC)	L 263	33	24.9.1983
▶ <u>M6</u> Council Directive of 1 October 1985 (85/467/EEC)	L 269	56	11.10.1985
► <u>M7</u> Council Directive of 20 December 1985 (85/610/EEC)	L 375	1	31.12.1985
► <u>M8</u> Council Directive of 21 December 1989 (89/677/EEC)	L 398	19	30.12.1989
► M9 Council Directive of 21 December 1989 (89/678/EEC)	L 398	24	30.12.1989
▶ <u>M10</u> Council Directive of 18 March 1991 (91/157/EEC)	L 78	38	26.3.1991
▶ <u>M11</u> Council Directive of 21 March 1991 (91/173/EEC)	L 85	34	5.4.1991
▶ <u>M12</u> Council Directive of 18 June 1991 (91/338/EEC)	L 186	59	12.7.1991
▶ <u>M13</u> Council Directive of 18 June 1991 (91/339/EEC)	L 186	64	12.7.1991
▶ <u>M14</u> Commission Directive of 3 December 1991 (91/659/EEC)	L 363	36	31.12.1991
▶ <u>M15</u> European Parliament and Council Directive 94/27/EC of 30 June 1994	L 188	1	22.7.1994
► M16 European Parliament and Council Directive 94/48/EC of 7 December 1994	L 331	7	21.12.1994
► M17 European Parliament and Council Directive 94/60/EC of 20 December 1994	L 365	1	31.12.1994
▶ <u>M18</u> Commission Directive 96/55/EC of 4 September 1996	L 231	20	12.9.1996
▶ <u>M19</u> Commission Directive 97/10/EC of 26 February 1997	L 68	24	8.3.1997
► M20 Directive 97/16/EC of the European Parliament and of the Council of 10 April 1997	L 116	31	6.5.1997
► M21 Directive 97/56/EC of the European Parliament and of the Council of 20 October 1997	L 333	1	4.12.1997
▶ <u>M22</u> Commission Directive 97/64/EC of 10 November 1997	L 315	13	19.11.1997
▶ <u>M23</u> Commission Directive 98/101/EC of 22 December 1998	L 1	1	5.1.1999
► M24 Directive 1999/43/EC of the European Parliament and of the Council of 25 May 1999	L 166	87	1.7.1999
▶ <u>M25</u> Commission Directive 1999/51/EC of 26 May 1999	L 142	22	5.6.1999
▶ <u>M26</u> Commission Directive 1999/77/EC of 26 July 1999	L 207	18	6.8.1999

► M27 Directive 2001/41/EC of the European Parliament and of the Council of 19 June 2001	L 194	36	18.7.2001
► <u>M28</u> Commission Directive 2001/90/EC of 26 October 2001	L 283	41	27.10.2001
► <u>M29</u> Commission Directive 2001/91/EC of 29 October 2001	L 286	27	30.10.2001
► M30 Directive 2002/45/EC of the European Parliament and of the Council of 25 June 2002	L 177	21	6.7.2002
► <u>M31</u> Commission Directive 2002/62/EC of 9 July 2002	L 183	58	12.7.2002
► M32 Directive 2002/61/EC of the European Parliament and of the Council of 19 July 2002	L 243	15	11.9.2002

Corrected by:

- ►<u>C1</u> Corrigendum, OJ L 250, 23.9.1999, p. 14 (89/677/EEC)
- ►<u>C2</u> Corrigendum, OJ L 216, 14.8.1999, p. 25 (97/10/EG)
- ►<u>C3</u> Corrigendum, OJ L 268, 1.10.1997, p. 38 (97/16/EC)
- ►<u>C4</u> Corrigendum, OJ L 203, 1.8.2002, p. 64 (2002/62/EC)

COUNCIL DIRECTIVE

of 27 July 1976

on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations

(76/769/EEC)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 100 there of,

Having regard to the proposal from the Commission,

Having regard to the opinion of the European Parliament (1),

Having regard to the opinion of the Economic and Social Committee (2),

Whereas any rules concerning the placing on the market of dangerous substances and preparations must aim at protecting the public, and particular persons using such substances and preparations;

Whereas they should contribute to the protection of the environment from all substances and preparations which have characteristics of ecotoxicity or which could pollute the environment;

Whereas they should also aim to restore, preserve and improve the quality of human life;

Whereas dangerous substances and preparations are governed by rules in the Member States; whereas these rules differ as to the conditions of their marketing and use; whereas these differences constitute an obstacle to trade and directly affect the establishment and functioning of the common market;

Whereas this obstacle should therefore be removed; whereas this entails approximating the laws governing the matter in the Member States;

Whereas provisions relating to certain dangerous substances and preparations have already been laid down in Community Directives; whereas it is still necessary to establish rules for other products, in particular for those in respect of which international organizations have decided on restrictions such as polychlorinated biphenyls (PCB), a decision restricting the production and use of which was adopted by the Council of the OECD on 13 February 1973; whereas such a measure is necessary to prevent the absorption of PCB by the human body and the resultant danger to human health;

Whereas detailed examinations have shown that polychlorinated terphenyls (PCT) entail risks similar to those presented by PCBs; whereas the marketing and use of such substances should also be restricted;

Whereas it will be necessary, moreover, periodically to review the whole problem with a view to moving gradually towards a complete ban on PCBs and PCTs;

Whereas the use of chloro-1-ethylene (monomer vinyl chloride) as an aerosol propellant involves dangers to human health and the use thereof should be prohibited,

⁽¹⁾ OJ No C 60, 13. 3. 1975, p. 49.

⁽²⁾ OJ No C 16, 23. 1. 1975, p. 25.

HAS ADOPTED THIS DIRECTIVE:

Article 1

- 1. Without prejudice to the application of other relevant Community provisions, this Directive is concerned with restricting the marketing and use in the Member States of the Community, of the dangerous substances and preparations listed in the Annex.
- 2. This Directive shall not apply to:
- (a) the carriage of dangerous substances and preparations by rail, road, inland waterway, sea or air;
- (b) dangerous substances and preparations exported to non-member countries;
- (c) substances and preparations in transit and subject to customs inspection, provided that they undergo no processing.
- 3. For the purposes of this Directive:
- (a) 'substances' means chemical elements and their compounds as they occur in the natural state or as produced by industry;
- (b) 'preparations' means mixtures or solutions composed of two or more substances.

Article 2

Member States shall take all neccessary (SIC! necessary) measures to ensure that the dangerous substances and preparations listed in the Annex may only be placed on the market or used subject to the conditions specified therein. Such restrictions shall not apply to marketing or use for Research and Development or analysis purposes.

▼M9

Article 2a

Amendments required to adapt the Annexes to technical progress, with regard to the substances and preparations already covered by the Directive, shall be adopted in accordance with the procedure laid down in Article 21 of Directive 67/548/EEC (¹), as last amended by Decision 88/490/EEC (²).

▼<u>B</u>

Article 3

- 1. Member States shall bring into force the provisions necessary to comply with this Directive within 18 months of its notification and shall forthwith inform the Commission thereof.
- 2. Member States shall communicate to the Commission the text of the provisions of national law which they adopt in the field covered by this Directive.

Article 4

This Directive is addressed to the Member States.

⁽¹⁾ OJ No 196, 16. 8. 1967, p. 1.

⁽²⁾ OJ No L 259, 19. 9. 1988, p. 1.

►<u>M5</u> ANNEX I ◀

Designation of the substance, of the groups of substances or of the preparation

Conditions of restriction

▼M6

- Polychlorinated biphenyls (PCB) except mono- and dichlorinated biphenyls
 - Polychlorinated terphenyls (PCTs)

May not be used. However, the following categories may be used under the following conditions:

- until 30 June 1986 at the latest: closed-system electrical equipment transformers, resistors and inductors;
- 2. until 30 June 1986 at the latest: large condensers (≥ 1 kg total weight);
- 3. until 30 June 1986 at the latest: small condensers (provided that the PCB has a maximum chlorine content of 43 % and does not contain more than 3,5 % of penta-and higher chlorinated biphenyls);
- 4. until 30 June 1986 at the latest: heat-transmitting fluids in closed-circuit heat-transfer installations:
- 5. until 30 June 1986 at the latest: hydraulic fluids for underground mining equipment:
 - The use of equipment, plant and fluids referred to in points 1 to 5 above which are in service on 30 June 1986 shall continue to be authorized until they are disposed of or reach the end of their service life.
 - Member States may, for reasons of protection of health and the environment, prohibit within their territory the use of such equipment, plant and fluids before they are disposed of or reach the end of their service life.
 - The placing on the second-hand market of such equipment, plant and fluids which are not intended for disposal shall be prohibited from 30 June 1986 onwards.
 - Where the Member States consider that it is not possible for technical reasons to use substitute products, they may continue to authorize the use of PCBs, PCTs and preparations thereof where the latter are solely intended, in the normal conditions of maintenance of equipment, to supplement the level of liquids containing PCBs in properly functioning existing plant purchased before the entry into force of this Directive.
- 6. until 30 June 1986 at the latest: primary and intermediate products for further processing into other products not prohibited by Directive 76/769/EEC and the Directives amending it; after 30 June 1986 Member States may, provided prior notification stating the reasons is sent to the Commission, grant derogations from the ban on the marketing and use of such primary and intermediate products, in so far as they consider that these derogations have no deleterious effects on health and the environment.

▼B

2. Chloro-1-ethylene (monomer vinyl chloride)

May not be used as aerosol propellant for any use whatsoever

▼M22

Liquid substances or preparations, which are regarded as dangerous according to the definitions in Article 2 (2) and the criteria in Annex VI, Part 2, 3 and 4, to Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (1), as adapted to technical progress by Commission Directives 93/21/EEC (2) and 96/ 54/EC (3).

1. May not be used in

- ornamental objects, intended to produce light or colour effects my means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any object intended to be used as such, even with ornamental aspects.
- 2. Without prejudice to the above, substances and preparations which:
 - present an aspiration hazard and are labelled with R65, and
 - can be used as fuel in decorative lamps, and

 are placed on the market in packaging of a capacity of 15 litres or less,

may not contain a colouring agent, unless required for fiscal reasons, or perfume or both.

Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and preparations, the packaging of substances and preparations covered by paragraph 2, where intended for use in lamps, must be marked legibly and indelibly as follows: 'Keep lamps filled with this liquid out of the reach of children'.

▼M1

 Tris (2,3 dibromopropyl) phosphate CAS No (Chemical Abstract Service Number) 126-72-7 May not be used in textile articles, such as garments, undergarments and linen, intended to come into contact with the skin.

▼<u>M2</u>

5. Benzene

CAS Nº (Chemical Abstract Service Number) 71-43-2

Not permitted in toys or parts of toys as placed on the market where the concentration of benzene in the free state is in excess of 5 mg/kg of the weight of the toy or part of toy.

▼M8

May not be used in concentrations equal to, or greater than, 0,1 % by mass in substances or preparations placed on the market

However, this provision shall not apply to:

- (a) motor fuels which are covered by Directive 85/210/ EEC:
- (b) substances and preparations for use in industrial processes not allowing for the emission of benzene in quantities in excess of those laid down in existing legislation;
- (c) waste covered by Directives 75/442/EEC (4) and 78/319/EEC (5).

▼<u>M14</u>

Asbestos fibres

▼M26

6.1. Crocidolite, CAS No 12001-28-4 Amosite, CAS No 12172-73-5 Anthophyllite asbestos, CAS No 77536-67-5

Actinolite asbestos, CAS No 77536-66-4

Tremolite asbestos, CAS No 77536-68-6

6.2. Chrysotile, CAS No 12001-29-5

6.1. The placing on the market and use of these fibres and of products containing these fibres added intentionally shall be prohibited.

6.2. The placing on the market and use of this fibre and of products containing this fibre added intentionally shall be prohibited.

However, Member States may except diaphragms for existing electrolysis installations until they reach the end of their service life, or until suitable asbestos-free substitutes become available, whichever is the sooner. The Commission will review this derogation before 1 January 2008.

The use of products containing asbestos fibres referred to in points 6.1 and 6.2 which were already installed and/or in service before the implementation date of Directive 1999/77/EC by the Member State concerned shall continue to be authorised until they are disposed of or reach the end of their service life. However, Member States may, for reasons of protection of health, prohibit within their territory the use of such products before they are disposed of or reach the end of their service life.

Without prejudice to the application of other Commu-

nity provisions on the classification, packaging and labelling of dangerous substances and preparations, the placing on the market and use of these fibres and of products containing these fibres, as authorised according to the preceding derogations, may be permitted only if the products bear a label in accordance with the provisions of Annex II to Directive 76/769/EEC.

▼ M4

- Tris-aziridinyl)-phosphinoxide
 CAS N° 5455-55-1
- 9. Polybromobiphenyls (PBB) CAS N° 59536-65-1
- Soap bark powder (Quillaja saponaria) and its derivatives containing saponines
 Powder of the roots of Helleborus viridis and Helleborus niger
 Powder of the roots of Veratrum album and Veratrum nigrum
 Benzidine and/or its derivatives o-nitrobenzaldehyde CAS N° 552-89-6
 Wood powder
- Ammonium sulphide and ammonium hydrogen sulphide CAS Nº 12135-76-1 CAS Nº 12124-99-1 Ammonium polysulphide CAS Nº 12259-92-6
- Volatile esters of bromoacetic acids:

Methyl bromoacetate

CAS Nº 96-32-2

Ethyl bromoacetate

CAS Nº 105-36-2

Propyl bromoacetate

Butyl bromoacetate

▼MՋ

- 13. 2-naphthylamine CAS No 91-59-8 and its salts
- 14. Benzidine CAS No 92-87-5 and its salts
- 15. 4-nitrobiphenyl CAS No 92-93-3
- 16. 4-aminobiphenyl CAS No 92-67-1 and its salts

May not be used in textile articles, such as garments, undergarments and linen, intended to come into contact with the skin

May not be used in jokes and hoaxes or in objects intended to be used as such, for instance as a constituent of sneezing powder and stink bombs

However, Member States may tolerate on their territory stink bombs containing not more than 1,5 ml

May not be used in concentrations equal to or greater than 0,1 % by weight in substances and preparations placed on the market.

However, this provision shall not apply to waste containing one or more of these substances and covered by Directives 75/442/EEC and 78/319/EEC.

Such substances and preparations may not be sold to the general public. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of dangerous substances and preparations, the packaging of such preparations shall be legible and indelibly marked as follows:

Restricted to professional users.

- 17. Lead carbons:
 - neutral anhydrous carbonate
 PB CO₃
 CAS No 598-63-0

 <u>C1</u> trilead-bis(carbonate)dihydroxide ■ 2 Pb CO₃-Pb(OH),

CAS No 1319-46-6

18. Lead sulphates
 PbSO₄ (1:1)
 CAS No 7446-14-2
 Pb_x SO₄
 CAS No 15739-80-7

▼<u>B</u>

▼M8

19. Mercury compound

20. Arsenic compounds

May not be used as substances and constituents of preparations intended for use as paints, except for the restoration and maintenance of works of art and historic buildings and their interiors, where Member States wish to authorize this on their territory, in accordance with the provisions of ILO Convention 13 on the use of white lead in paint.

May not be used as substances and constituents of preparations intended for use as paints, except for the restoration and maintenance of works of art and historic buildings and their interiors, where Member States wish to authorize this on their territory, in accordance with the provisions of ILO Convention 13 on the use of sulphates of lead in paint.

► M23 Member States shall prohibit, as from 1 January 2000 at the latest, the marketing of batteries and accumulators, containing more than 0,0005 % of mercury by weight, including in those cases where these batteries and accumulators are incorporated into appliances. Button cells and batteries composed of button cells with a mercury content of no more than 2 % by weight shall be exempted from this prohibition. ◀

May not be used as substances and constituents of preparations intended for use:

- (a) to prevent the fouling by micro-organisms, plants or animals of:
 - the hulls of boats,
 - cages, floats, nets and any other appliances or equipment used for fish or shellfish farming,
 - any totally or partly submerged appliances or equipment;
- (b) in the preservation of wood;
- (c) in the impregnation of heavy-duty industrial textiles and yarn intended for their manufacture;
- (d) in the treatment of industrial waters, irrespective of their use.
- May not be used as substances and constituents of preparations intended for use:
 - (a) to prevent the fouling by micro-organisms, plants or animals of:
 - the hulls of boats,
 - cages, floats, nets and any other appliances or equipment used for fish or shellfish farming,
 - any totally or partly submerged appliances or equipment;
 - (b) in the preservation of wood.

In this case, the ban does not apply to solutions of inorganic salts of the CCA (copper — chromium — arsenic) type employed in industrial installations using vacuum or pressure to impregnate wood.

In addition, Member States may authorize on their territory the use of preparations of the DFA (dinitrophenol — fluoride — arsenic) type for the retreatment in situ of wooden poles already in place and supporting overhead cables. Such preparations must be employed by professionals using vacuum or pressure.

May not be used as substances and constituents of preparations intended for use in the treatment of industrial waters, irrespective of their use.

21. Organostannic compounds

- May not be placed on the market for use as substances and constituents of preparations when acting as biocides in free association paint.
- May not be placed on the market or used as substances and constituents of preparations which act as biocides to prevent the fouling by microorganisms, plants or animals of:

 - (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming;
 - (c) any totally or partly submerged appliance or equipment.
- May not be used as substances and constituents of preparations intended for use in the treatment of industrial waters.

▼M8

22. di-μ-oxo-di-n-butylstanniohydroxyborane
 (C₈H₁₉BO₃S_n, CAS No 75113-37-0)
 (DBB)

Shall be prohibited in a concentration equal to or greater than 0,1 % in substances and constituents of preparations placed on the market. However, this provision shall not apply to this substance (DBB) or preparations containing it if these are intended solely for conversion into finished products, among which this substance will no longer feature in a concentration equal to or greater than 0,1%.

▼<u>M25</u>

23. Pentachlorophenol (CAS No 87-86-5) and its salts and esters

Shall not be used in a concentration equal to or greater than 0,1 % by mass in substances or preparations placed on the market.

By way of derogation until 31 December 2008 France, Ireland, Portugal, Spain and the United Kingdom may chose not to apply this provision to substances and preparations intended for use in industrial installations not permitting the emission and/or discharge of pentachlorophenol (PCP) in quantities greater than those prescribed by existing legislation:

(a) in the treatment of wood.

However, treated wood may not be used:

- inside buildings whether for decorative purposes or not, whatever their purpose (residence, employment, leisure),
- for the manufacture and re-treatment of:
 - (i) containers intended for growing purposes;
 - (ii) packaging that may come into contact with raw materials, intermediate or finished products destined for human and/or animal consumption;
 - (iii) other materials that may contaminate the products mentioned in (i) and (ii);
- (b) in the impregnation of fibres and heavy-duty textiles not intended in any case for clothing or for decorative furnishings;
- (c) by way of special exception, Member States may on a case-by-case basis, authorise on their territory specialised professionals to carry out in situ and for buildings of cultural, artistic and historical interest, or in emergencies, a remedial treatment of timber and measonry infected by dry rot fungus (Serpula lacrymans) and cubic rot fungi.

In any case:

- (a) Pentachlorophenol used alone or as a component of preparations employed within the framework of the above exceptions must have a total hexachlorodibenzoparadioxin (HCDD) content of not more than two parts per million (ppm);
- (b) these substances and preparations may not:

- be placed on the market except in packages of 20 litres or more:
- be sold to the general public.

Without prejudice to the implementation of other Community provisions concerning the classification, packaging and labelling of dangerous substances and preparations, the packaging of such preparations should be marked clearly and indelibly:

Reserved for industrial and professional use

In addition, this provision shall not apply to wast covered by Directives 75/442/EEC (4) and 91/689/EEC (17).

▼M<u>12</u>

24. Cadmium (CAS No 7440-43-9) and its compounds

- 1.1. May not be used to give colour to finished products manufactured from the substances and preparations listed below:
 - polyvinyl chloride (PVC) [390410] [390421][390422] (6)
 - polyurethane (PUR) [390950] (6)
 - low-density polyethylene (ld PE), with the exception of low-density polyethylene used for the production of coloured masterbatch [390110] (6)
 - cellulose acetate (CA) [391211] [391212] (6)
 - cellulose acetate butyrate (CAB) [391211] [391212] (6)
 - epoxy resins [390730] (6)

In any case, whatever their use or intended final purpose, finished products or components of products manufactured from the substances and preparations listed above coloured with cadmium may not be placed on the market if their cadmium content (expressed as Cd metal) exceeds 0,01 % by mass of the plastic material.

- 1.2. Section 1.1 also applies from 31 December 1995 for:
 - (a) finished products manufactured from the following substances and preparations:
 - melamine formaldehyde (MF) [390920] (6)
 - urea formaldehyde (UF) [390910] (6)
 - unsaturated polyesters (UP) [390791] (6)
 - polyethylene terephthalate (PET) [390760] (6)
 - polybutylene terephthalate (PBT)
 - transparent/general-purpose polystyrene [390311] [390319] (6)
 - acrylonitrile methylmethacrylate (AMMA)
 - cross-linked polyethylene (VPE) (6)
 - high-impact polystyrene
 - polypropylene (PP) [390210] (⁶)
 - (b) paints [3208] [3209] (6)

However, if the paints have a high zinc content, their residual concentration of cadmium must be as low as possible and at all events not exceed 0,1 % by mass

- 1.3. However, Sections 1.1 and 1.2 do not apply to products to be coloured for safety reasons.
- 2.1. May not be used to stabilize the finished products listed below manufactured from polymers or copolymers of vinyl chloride:
 - packaging materials (bags, containers, bottles, lids)[3923 29 10] [392041] [392042] (6)
 - office or school supplies [392610] (6)
 - fittings for furniture, coachwork or the like [392630] (6)
 - articles of apparel and clothing accessories (including gloves) [392620] (6)
 - floor and wall coverings [391810] (6)

- impregnated, coated, covered or laminated textile fabrics [590310] (6)
- imitation leather [4202] (6)
- gramophone records [852410] (6)
- tubes and pipes and their fittings [391723] (6)
- swing doors (⁶)
- vehicles for road transport (interior, exterior, underbody) (6)
- coating of steel sheet used in construction or in industry (6)
- insulation for electrical wiring (6)

In any case, whatever their use or intended final purpose, the placing on the market of the above finished products or components of products manufactured from polymers or copolymers of vinyl chloride, stabilized by substances containing cadmium is prohibited, if their cadmium content (expressed as Cd metal) exceeds 0,01 % by mass of the polymer.

These provisions enter into force on 30 June 1994.

- 2.2. However, Section 2.1 does not apply to finished products using cadmium-based stabilizers for safety reasons.
- 3. Within the meaning of this Directive, 'cadmium plating' means any deposit or coating of metallic cadmium on a metallic surface.
- 3.1. May not be used for cadmium plating metallic products or components of the products used in the sectors/applications listed below.
 - (a) equipment and machinery for:
 - food production: [8210] [841720] [841981] [842111] [842122] [8422] [8435] [8437] [8438] [847611] (°)
 - agriculture [841931] [842481] [8432] [8433] [8434] [8436] (6)
 - cooling and freezing [8418] (6)
 - printing and book-binding [8440] [8442] [8443] (6)
 - (b) equipment and machinery for the production of:
 - household goods [7321] [842112] [8450] [8509] [8516] (°)
 - furniture [8465] [8466] [9401] [9402] [9403] [9404] (6)
 - sanitary ware [7324] (6)
 - central heating and air conditioning plant [7322] [8403] [8404] [8415] (6)

In any case, whatever their use or intended final purpose, the placing on the market of cadmium-plated products or components of such products used in the sectors/applications listed in (a) and (b) above and of products manufactured in the sectors listed in (b) above is prohibited.

- 3.2. The provisions referred to in Section 3.1 are also applicable from 30 June 1995 to cadmium-plated products or components of such products when used in the sectors/applications listed in (a) and (b) below and to products manufactured in the sectors listed in (b) below:
 - (a) equipment and machinery for the production of:
 - paper and board [841932] [8439] [8441] (6)
 - textiles and clothing [8444] (1) [8445] [8447] [8448] [8449] [8451] [8452] (6)
 - (b) equipment and machinery for the production of:
 - industrial handling equipment and machinery [8425] [8426] [8427] [8428] [8429] [8430] [8431] (*)

- road and agricultural vehicles [chapter 87] (6)
- rolling stock [chapter 86] (6)
- vessels [chapter 89] (6)
- 3.3. However, Sections 3.1 and 3.2 do not apply to:
 - products and components of the products used in the aeronautical, aerospace, mining, offshore and nuclear sectors whose applications require high safety standards and in safety devices in road and agricultural vehicles, rolling stock and vessels,
 - electrical contacts in any sector of use, on account of the reliability required of the apparatus on which they are installed.
- 4. Austria and Sweden, which already apply restrictions to cadmium going further than those prescribed in Sections 1, 2 and 3 may continue to apply these restrictions until 31 December 2002. The Commission will review the provisions on cadmium in Annex I to Directive 76/769/ EEC before this date in light of the results of risk assessment for cadmium and of development of knowledge and techniques in respect of substitutes for cadmium.

▼M25

▼<u>M13</u>
25. Monomethyl — tetrachlorodiphenyl methane
Trade name: Ugilec 141

CAS No 76253-60-6

As from 18 June 1994 the marketing and use of this substance and of preparations and products containing it shall be prohibited. By way of exception this provision shall not apply:

 in the case of plant and machinery already in service on 18 June 1994 until such plant and machinery is disposed of.

However, as from 18 June 1994 Member States may, on grounds of health protection and environmental protection, prohibit within their territory the use of such plant or machinery before it is disposed of;

2) in the case of the maintenance of plant and machinery already in service on 18 June 1994.

As from 18 June 1994 the placing on the secondhand market of this substance, preparations containing this substance and plant/machinery containing this substance, shall be prohibited

26. Monomethyl-dichloro-diphenyl methane

Trade name: Ugilec 121, Ugilec

21

methane

CAS No — unknown

27. Monomethyl-dibromo-diphenyl

Trade name: DBBT CAS No 99688-47-8

The marketing and use of this substance and of preparations and products containing it shall be prohibited.

▼M<u>15</u>

28. Nickel
CAS No 7440-02-0
EINECS No 2311114
and its compounds

The marketing and use of this substance and of preparations and products containing it shall be prohibited.

May not be used:

- in post assemblies which are inserted into pierced ears and other pierced parts of the human body during epithelization of the wound caused by piercing, whether subsequently removed or not, unless such post assemblies are homogeneous and the concentration of nickel expressed as mass of nickel to total mass — is less than 0,05 %;
- 2) in products intended to come into direct and prolonged contact with the skin such as:
 - earrings,
 - necklaces, bracelets and chains, anklets, finger rings,
 - wrist-watch cases, watch straps and tighteners,
 - rivet buttons, tighteners, rivets, zippers and metal marks, when these are used in garments

if the rate of nickel release from the parts of these

- products coming into direct and prolonged contact with the skin is greater than 0,5 µg/cm²/week;
- 3) in products such as those listed in point 2 where these have a non-nickel coating unless such coating is sufficient to ensure that the rate of nickel release from those parts of such products coming into direct and prolonged contact with the skin will not exceed 0,5 ug/ cm²/week for a period of at least two years of normal use of the product.

Furthermore, products which are the subject of points 1, 2 and 3, may not be placed on the market unless they conform to the requirements set out in those points

▼M<u>19</u>

29. Substances which appear in Annex I to Directive 67/548/ EEC classified as carcinogen category 1 or carcinogen category 2 and labelled at least as 'Toxic (T)' with risk phrase R 45: 'May cause cancer' or risk phrase R49: 'May cause cancer by inhalation', and listed as follows:

Carcinogen category 1: See List 1 in the Appendix.

Carcinogen category 2: See List 2 in the Appendix.

Without prejudice to the other points of Annex I to Directive 76/769/EEC:

May not be used in substances and preparations placed on the market for sale to the general public in individual concentration equal to or greater than:

- either the concentration specified in Annex I to Council Directive 67/548/EEC (7), or
- the concentration specified in point 6, Table VI, of Annex I to Council Directive 88/379/EEC (*), where no concentration limit appears in Annex I to Directive 67/ 548/EEC.
- ► M21 Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and preparations, the packaging of such substances and preparations must be marked legibly and indelibly as follows: 'Restricted to professional users'. ◀

By way of derogation, this provision shall not apply to:

- (a) medicinal or veterinary products as defined by Council Directive 65/65/EEC (*);
- (b) cosmetic products as defined by Council Directive 76/ 768/EEC (10);
- (c) ► C2 motor fuels which are covered by Council Directive 85/210/EEC (11),
 - mineral oil products intended for use as fuel in mobile or fixed combustion plants,
 - fuels sold in closed systems (e.g. liquid gas bottles): ◀
- (d) artists' paints covered by Council Directive 88/379/ EEC (12).

Without prejudice to the other points of Annex I to Directive 76/769/EEC

May not be used in substances and preparations placed on the market for sale to the general public in individual concentration equal to or greater than:

- either the concentration specified in Annex I to Directive 67/548/EEC, or
- the concentration specified in point 6, Table VI, of Annex I to Directive 88/379/EEC where no concentration limit appears in Annex I to Directive 67/548/EEC.
- ▶ M21 Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and preparations, the packaging of such substances and preparations must be marked legibly and indelibly as follows: 'Restricted to professional users'. ◀

By way of derogation, this provision shall not apply to:

- (a) medicinal or veterinary products as defined by Directive 65/65/EEC;
- (b) cosmetic products as defined by Directive 76/768/EEC;
- (c) $ightharpoonup \underline{C2}$ motor fuels which are covered by Council Directive 85/210/EEC (11),
 - mineral oil products intended for use as fuel in

30. Substances which appear in Annex I to Directive 67/548/ EEC classified as mutagen category 1 or mutagen category 2 and labelled with risk phrase R46: 'May cause heritable genetic damage', and listed as follows:

Mutagen category 1: See List 3 in the Appendix.

Mutagen category: See List 4 in the Appendix.

31. Substances which appear in Annex I to Directive 67/548/ EEC classified as toxic to reproduction category 1 or toxic to reproduction category 2 and labelled with risk phrase R60: 'May impair fertility' and/or R61: 'May cause harm to the unborn child', and listed as follows:

Toxic to reproduction category 1: See List 5 in the Appendix.

Toxic to reproduction category 2: See List 6 in the Appendix.

- mobile or fixed combustion plants,
- fuels sold in closed systems (e.g. liquid gas bottles); ◀
- (d) artists' paints covered by Directive 88/379/EEC.

Without prejudice to the other points of Annex I to Directive 76/769/EEC

May not be used in substances and preparations placed on the market for sale to the general public in individual concentration equal to or greater than:

- either the concentration specified in Annex I to Directive 67/548/EEC, or
- the concentration specified in point 6, Table VI, of Annex I to Directive 88/379/EEC where no concentration limit appears in Annex I to Directive 67/548/EEC.
- ► M21 Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and preparations, the packaging of such substances and preparations must be marked legibly and indelibly as follows: 'Restricted to professional users'. ◀

By way of derogation, this provision shall not apply to:

- (a) medicinal or veterinary products as defined by Directive 65/65/EEC;
- (b) cosmetic products as defined by Directive 76/768/EEC;
- (c) $\triangleright \underline{C2}$ motor fuels which are covered by Council Directive 85/210/EEC (11),
 - mineral oil products intended for use as fuel in mobile or fixed combustion plants,
 - fuels sold in closed systems (e.g. liquid gas bottles); ◀
- (d) artists' paints covered by Directive 88/379/EEC.

▼M28

- 32. Substances and preparations containing one or more of the following substances:
 - (a) creosote EINECS No 232-287-5 CAS No 8001-58-9
 - (b) creosote oil EINECS No 263-047-8 CAS No 61789-28-4
 - (c) distillates (coal tar), naphthalene oils

EINECS No 283-484-8 CAS No 84650-04-4

(d) creosote oil, acenaphthene fraction

EINECS No 292-605-3 CAS No 90640-84-9

- (e) distillates (coal tar), upper EINECS No 266-026-1 CAS No 65996-91-0
- (f) anthracene oil EINECS No 292-602-7 CAS No 90640-80-5
- (g) tar acids, coal, crude EINECS No 266-019-3 CAS No 65996-85-2
- (h) creosote, wood EINECS No 232-419-1

- May not be used in the treatment of wood. Furthermore, wood so treated may not be placed on the market
- 2. However by way of derogation:
 - (i) Relating to the substances and preparations: these may be used for wood treatment in industrial installations or by professionals covered by Community legislation on the protection of workers for in situ retreatment only if they contain:
 - (a) benzo-a-pyrene at a concentration of less than 0,005 % by mass
 - (b) and water extractable phenols at a concentration of less than 3 % by mass.

Such substances and preparations for use in wood treatment in industrial installations or by professionals:

- may be placed on the market only in packaging of a capacity equal to or greater than 20 litres,
- may not be sold to consumers.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of dangerous substances and preparations, the packaging of such substances and preparations shall be legibly and indelibly marked 'For use in industrial installations or professional treatment only'.

- (ii) Relating to wood treated in industrial installations or by professionals according to (i) which is placed on the market for the first time or retreated in-situ: this is permitted for professional and industrial use only, e.g. on railways, in electric power transmission and telecommunications, for fencing, for agricultural purposes (e.g. stakes for tree support) and in harbours and waterways.
- (iii) Relating to wood having been treated with substances listed in point 32(a) to (i) before this

CAS No 8021-39-4

(i) low temperature tar oil, alkaline

EINECS No 310-191-5 CAS No 122384-78-5 Directive applies: the prohibition in point 1 on the placing on the market shall not apply where this is placed on the second-hand market for re-use

- 3. However, treated wood referred to under point 2(ii) and (iii) may not be used:
 - inside buildings, whatever their purpose,
 - in toys,
 - in playgrounds,
 - in parks, gardens, and outdoor recreational and leisure facilities where there is a risk of frequent skin contact,
 - in the manufacture of garden furniture such as picnic tables.
 - for the manufacture and use and any re-treatment of:
 - containers intended for growing purposes,
 - packaging that may may come into contact with raw materials, intermediate or finished products destined for human and/or animal consumption,
 - other materials which may contaminate the products mentioned above.

▼M18

- 33. Chloroform No CAS No 67-66-3
- 34. Carbon tetrachloride CAS No 56-23-5
- 35. 1,1,2 Trichloroethane CAS No 79-00-5
- 36. 1,1,2,2 Tetrachloroethane CAS No 79-34-5
- 37. 1,1,1,2 Tetrachloroethane CAS No 630-20-6
- 38. Pentachloroethane CAS No 76-01-7
- 39. 1,1 Dichloroethylene CAS No 75-35-4
- 40. 1,1,1 Trichloroethane CAS No 71-55-6

May not be used in concentrations equal to or greater than 0,1 % by weight in substances and preparations placed on the market for sale to the general public and/or in diffusive applications such as in surface cleaning and cleaning of fabrics.

Without prejudice to the application of other Community provisions on the classification, packaging and labelling of dangerous substances and preparations, the packaging of such substances and preparations containing them in concentrations equal to or greater than 0,1 % shall be legible and indelibly marked as follows: 'For use in industrial installations only'.

By way of derogation this provision shall not apply to:

- (a) medicinal or veterinary products as defined by Directive 65/65/EEC (¹³), as last amended by Directive 93/39/EEC (¹⁴);
- (b) cosmetic products as defined by Directive 76/768/ EEC (15), as last amended by Directive 93/35/EEC (16).

▼<u>M16</u>

41. Substances

either

- appearing in Annex I to Directive 67/548/EEC which are classified as flammable or extremely flammable and labelled as such,
 - or
- not yet appearing in Annex I to Directive 67/458/EEC but conforming to the criteria of flammability of Annex VI to Directive 67/458/EEC and being provisionally classified and labelled as flammable, highly flammable or extremely flammable according to Article 5 (2) of Directive 67/458/EEC.
- May not be used as such or in the form of preparations in aerosol generators marketed and intended for sale to the general public for entertainment and decorative purposes such as the following:
 - metallic glitter intended mainly for decorations,
 - artificial snow and frost,
 - 'whoopee' cushions,
 - silly string, aerosols,
 - imitation excrement,
 - horn for parties,
 - decorative flakes and foams,
 - artificial cobwebs,
 - stink bombs,
 - etc.
- 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of dangerous substances, the following words must appear legibly and indelibly on the packaging of aerosol generators referred to above; 'For professional users only'.
- 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol generators referred to in Article 9a of Directive 75/324/EEC.
- 4. The products referred to above may not be placed on the

▼M29

41. Hexachloroethane

CAS No 67-72-1

EINECS No 2006664

▼<u>M30</u>

42. Alkanes, C₁₀-C₁₃, chloro (short-chain chlorinated paraffins)

market unless they conform to the requirements indicated.

May not be used in the manufacturing or processing of nonferrous metals.

- 1. May not be placed on the market for use as substances or as constituents of other substances or preparations in concentrations higher than 1 %:
 - in metalworking;
 - for fat liquoring of leather.
- 2. Before 1 January 2003 all remaining uses of SCCPs will be reviewed by the European Commission, in cooperation with the Member States and the OSPAR Commission, in the light of any relevant new scientific data on risks posed by SCCPs to health and the environment.

The European Parliament will be informed of the outcome of this review.

▼M32

43. Azocolourants

- 1. Azodyes which, by reductive cleavage of one or more azo groups, may release one or more of the aromatic amines listed in the Appendix, in detectable concentrations, i.e. above 30 ppm in the finished articles or in the dyed parts thereof, according to the testing method established in accordance with Article 2a of this Directive, may not be used in textile and leather articles which may come into direct and prolonged contact with the human skin or oral cavity, such as:
 - clothing, bedding, towels, hairpieces, wigs, hats, nappies and other sanitary items, sleeping bags,
 - footwear, gloves, wristwatch straps, handbags, purses/wallets, briefcases, chair covers, purses worn round the neck,
 - textile or leather toys and toys which include textile or leather garments,
 - yarn and fabrics intended for use by the final consumer.
- 2. Furthermore, the textile and leather Articles referred to in point 1 above may not be placed on the market unless they conform to the requirements set out in that point.

By way of derogation, until 1 January 2005, this provision shall not apply to textile articles made of recycled fibres if the amines are released by residues deriving from previous dyeing of the same fibres and if the listed amines are released in concentrations below 70 ppm.

3. Not later than 11 September 2005, the Commission shall, in the light of new scientific knowledge, review the provisions on azocolourants.

▼B

- ►M22 (¹) OJ L 196, 16. 8. 1967, p. 1.
- OJ L 110, 4. 5. 1993, p. 20. OJ L 248, 30. 9. 1996, p. 1. ◀
- OJ No L 194, 25. 7. 1975, p 39.
- OJ No L 84, 31. 3. 1978, p. 43. Council Regulation (EEC) No 2658/87 of 23 July 1987 on the tariff and statistical nomenclature and on the Common Customs Tariff (OJ No L 256, 7. 9. 1987).
- **► M19** (7) OJ No 196, 16. 8. 1967, p. 1/67.

- (*) OJ No L 187, 16. 7. 1988, p. 14. (*) OJ No L 262, 9. 2. 1965, p. 369/65. (10) OJ No L 262, 27. 9. 1976, p. 169. (11) OJ No L 96, 3. 4. 1985, p. 25. (12) OJ No 187, 16. 7. 1988, p. 14.
- (14) OJ No L 214, 24. 8. 1993, p. 22.
- (15) OJ No L 262, 27. 9. 1976, p. 169.
- OJ No L 151, 23. 6. 1993, p. 32. ◀ ►**M25** (17) OJ L 377, 31.12.1991, p. 20. ◀

Appendix

Foreword

Explanations of column headings

Substances:

The name is the same as that used for the substance in Annex I to Directive 67/548/EEC. Whenever possible dangerous substances are designated by their Einecs (European Inventory of Existing Commercial Chemical Substances) of Elincs (European List of Notified Chemical Substances) names. Other entries not listed in Einecs or Elincs are designated using an internationally recognized chemical name (e.g. ISO, IUPAC). An additional common name is included in some cases.

Index number:

The index number is the identification code given to the substance in Annex I of Directive 67/548/EEC. Substances are listed in the Appendix according to this index number.

EC number:

For each substance listed in the European Inventory of Existing Commercial Chemical Substances (Einecs) there is an identification code. The code starts at 200-001-8

For each new substance notified under the Directive 67/548/EEC an identification code has been defined and published in the European List of Notified Chemical Substances (Elincs). The code starts at 400-010-9.

CAS number:

Chemical Abstracts Service (CAS) numbers have been defined for substances to help in their identification.

Notes:

The full text of the notes can be found in the foreword of Annex I of Directive 67/548/EEC

The notes to the taken into account for the purposes of this Directive are as follows:

Note J:

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7).

Note K:

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (Einecs No 203-450-8).

Note L

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

Note M

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0,005 % w/w benzo[a]-pyrene (Einecs No 200-028-5).

Note N:

The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.

Note P:

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.1 % w/w benzene (Einecs No 200-753-7).

▼<u>M27</u>

Note R:

The classification as a carcinogen need not apply to fibres with a length weighted geometric mean diameter, less two standard errors, greater than 6µm.

Point 29 — Carcinogens: category 1

Substances	Index number	EC number	CAS number	Notes
Chromium trioxide	024-001-00-0	215-607-8	1333-82-0	
Zinc chromates including zinc potassium chromate	024-007-00-3			
nickel monoxide	028-003-00-2	215-215-7	1313-99-1	
nickel dioxide	028-004-00-8	234-823-3	12035-36-8	
dinickel trioxide	028-005-00-3	215-217-8	1314-06-3	
nickel sulphide	028-006-00-9	240-841-2	16812-54-7	
nickel subsulphide	028-007-00-4	234-829-6	12035-72-2	
diarsenic trioxide; arsenic trioxide	033-003-00-0	215-481-4	1327-53-3	
arsenic pentoxide; arsenic oxide	033-004-00-6	215-116-9	1303-28-2	
arsenic acid and its salts	033-005-00-1			
lead hydrogen arsenate	082-011-00-0	232-064-2	7784-40-9	
benzene	601-020-00-8	200-753-7	71-43-2	
vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4	
Bis (chloromethyl) ether	603-046-00-5	208-832-8	542-88-1	
Chloromethyl methyl ether; chlorodi- methyl ether	603-075-00-3	203-480-1	107-30-2	
2-naphthylamine; beta-naphthylamine	612-022-00-3	202-080-4	91-59-8	
benzidine; 4,4'-diaminobiphenyl; biphenyl-4,4'-ylenediamine	612-042-00-2	202-199-1	92-87-5	
salts of benzidine	612-070-00-5			
salts of 2-naphthylamine	612-071-00-0			
biphenyl-4-ylamine; xenylamine; 4- aminobiphenyl	612-072-00-6	202-177-1	92-67-1	
salts of biphenyl-4-ylamine; salts of xenylamine; salts of 4-aminobiphenyl	612-073-00-1			
Tar, coal; Coal tar (The by-product from the destructive distillation of coal. Almost black semisolid. A complex combination of aromatic hydro-carbons, phenolic compounds, nitrogen bases and thiophene.)	648-081-00-7	232-361-7	8007-45-2	

Substances	Index number	EC number	CAS number	Notes
Tar, coal, high-temp.; Coal tar (The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in the high temperature (greater than 700 °C (1292 °F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of a complex mixture of condensed ring aromatic hydrocarbons. May contain minor amounts of phenolic compounds and aromatic nitrogen bases.)	648-082-00-2	266-024-0	65996-89-6	
Tar, coal, low-temp.; Coal oil (The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in low temperature (less than 700 °C (1292 °F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of condensed ring aromatic hydrocarbons, phenolic compounds, aromatic nitrogen bases, and their alkyl derivatives.)	648-083-00-8	266-025-6	65996-90-9	
Tar brown-coal; (An oil distilled from brown-coal tar. Composed primarily of aliphatic, naphthenic and one- to three-ring aromatic hydrocarbons, their alkyl derivates, heteroaromatics and one- and two-ring phenols boiling in the range of approximately 150 °C to 360 °C (302 °F to 680 °F).)	648-145-00-4	309-885-0	101316-83-0	
Tar, brown-coal, low temp.; (A tar obtained from low temperature carbonization and low temperature gasification of brown coal. Composed primarily of aliphatic, naphthenic and cyclic aromatic hydrocarbons, heteroaromatic hydrocarbons and cyclic phenols.)	648-146-00-X	309-886-6	101316-84-1	
Distillates (petroleum), light paraffinic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ s through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cS at 40 °C). It contains a relatively large proportion of saturated aliphatic hydrocarbons normally present in this distillation range of crude oil.)	649-050-00-0	265-051-5	64741-50-0	
	Tar, coal, high-temp.; Coal tar (The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in the high temperature (greater than 700 °C (1292 °F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of a complex mixture of condensed ring aromatic hydrocarbons. May contain minor amounts of phenolic compounds and aromatic nitrogen bases.) Tar, coal, low-temp.; Coal oil (The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in low temperature (less than 700 °C (1292 °F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of condensed ring aromatic hydrocarbons, phenolic compounds, aromatic nitrogen bases, and their alkyl derivatives.) Tar brown-coal; (An oil distilled from brown-coal tar. Composed primarily of aliphatic, naphthenic and one- to three-ring aromatic hydrocarbons, their alkyl derivates, heteroaromatics and one- and two-ring phenols boiling in the range of approximately 150 °C to 360 °C (302 °F to 680 °F).) Tar, brown-coal, low temp.; (A tar obtained from low temperature carbonization and low temperature gasification of brown coal. Composed primarily of aliphatic, naphthenic and cyclic aromatic hydrocarbons, heteroaromatic hydrocarbons and cyclic primarily of aliphatic, naphthenic and cyclic aromatic hydrocarbons and cyclic primarily of aliphatic, naphthenic and cyclic aromatic hydrocarbons and cyclic primarily of aliphatic, naphthenic and cyclic aromatic hydrocarbons and cyclic aromatic hydrocarbons heteroaromatic hydrocarbons heteroaromatic hydrocarbons and cyclic aromatic hydrocarbons and cyclic aromatic hydrocarbons normally present prodominally in the range of C ₁₅ through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cS at 40 °C). It contains a relatively large proportion of saturated aliphatic hydrocarbons normally present	Tar, coal, high-temp.; Coal tar (The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in the high temperature (greater than 700 °C (1292 °F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of a complex mixture of condensed ring aromatic hydrocarbons. May contain minor amounts of phenolic compounds and aromatic nitrogen bases.) Tar, coal, low-temp.; Coal oil (The condensation product obtained by cooling, to approximately ambient temperature; the gas evolved in low temperature (less than 700 °C (1292 °F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of condensed ring aromatic hydrocarbons, phenolic compounds, aromatic nitrogen bases, and their alkyl derivatives.) Tar brown-coal; (An oil distilled from brown-coal tar. Composed primarily of aliphatic, naphthenic and one- and two-ring phenols boiling in the range of approximately 150 °C to 360 °C (302 °F to 680 °F).) Tar, brown-coal, low temp.; (A tar obtained from low temperature carbonization and low temperature gasification of brown coal. Composed primarily of aliphatic, naphthenic and cyclic aromatic hydrocarbons normally present distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₂ and produces a finished oil with a viscosity of the set and cyclic aromatic hydrocarbons normally present	Tar, coal, high-temp; Coal tar (The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in the high temperature (greater than 700 °C (1292 °F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of a complex mixture of condensed ring aromatic hydrocarbons. May contain minor amounts of phenolic compounds and aromatic nitrogen bases.) Tar, coal, low-temp.; Coal oil (The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in low temperature (less than 700 °C (1292 °F)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of condensed ring aromatic hydrocarbons, phenolic compounds, aromatic nitrogen bases, and their alkyl derivatives.) Tar brown-coal; (An oil distilled from brown-coal tar. Composed primarily of aliphatic, naphthenic and one- to three-ring aromatic hydrocarbons, their alkyl derivates, heteroaromatics and one- and two-ring phenols boiling in the range of approximately 150 °C to 360 °C (302 °F to 680 °F).) Tar, brown-coal, low temp.; (A tar obtained from low temperature gasification of brown coal. Composed primarily of aliphatic, naphthenic and one- to three-ring aromatic hydrocarbons, heteroaromized and low temperature gasification of brown coal. Composed primarily of aliphatic, naphthenic and cyclic aromatic hydrocarbons, heteroaromatic hydrocarbons and cyclic aromatic hydrocarbons normatic hydrocarbons and cyclic aromatic hydrocarbons normatic hydrocarbons aromatic hydrocarbons of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cS at 40 °C). It contains a	Tar, coal, high-temp; Coal tar (The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in the high temperature (greater than 700 °C (1292 °Ft)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of a complex mixture of condensed ring aromatic hydrocarbons. May contain minor amounts of phenolic compounds and aromatic nitrogen bases.) Tar, coal, low-temp; Coal oil (The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in low temperature (less than 700 °C (1292 °Ft)) destructive distillation of coal. A black viscous liquid denser than water. Composed primarily of condensed ring aromatic hydrocarbons, phenolic compounds, aromatic nitrogen bases, and their alkyl derivatives.) Tar brown-coal; (An oil distilled from brown-coal tar. Composed primarily of aliphatic, naphthenic and one- to three-ring aromatic hydrocarbons, their alkyl deri- vates, heteroaromatics and one- and two- ring phenols boiling in the range of approximately 150 °C to 360 °C (302 °F to 680 °F).) Tar, brown-coal, low temp; (A tar obtained from low temperature carbonization and low temperature gasi- fication of brown coal. Composed primarily of aliphatic, naphthenic and cyclic aromatic hydrocarbons, hetero- aromatic hydrocarbons and cyclic phenols.) Distillates (petroleum), light paraffinic; (A complex combination of hydroca- romatic hydrocarbons and cyclic phenols) Distillates (petroleum), light paraffinic; (aromatic hydrocarbons numbers) For the residuum from atmospheric distilla- tion of crude oil. It consists of hydro- carbons having carbon numbers predominantly in the range of cyclic aromatic hydrocarbons normalic hydrocarbons predominantly in the range of cyclic aromatic hydrocarbons of the residuum from atmospheric distilla- tion of crude oil. It consists of hydro- carbons having carbon numbers predominantly in the range of cyclic parafetic of the residuum from atmospheric distilla- tion of crude oil. It

Substances	Index number	EC number	CAS number	Note
Distillates (petroleum), heavy paraffinic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} , and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains a relatively large proportion of saturated aliphatic hydrocarbons.)	649-051-00-6	265-052-0	64741-51-1	
Distillates (petroleum), light naphthenic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{15} through C_{30} , and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-052-00-1	265-053-6	64741-52-2	
Distillates (petroleum), heavy naphthenic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons produced by vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} , and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-053-00-7	265-054-1	64741-53-3	
Distillates (petroleum), acid-treated heavy naphthenic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} , and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-054-00-2	265-117-3	64742-18-3	
Distillates (petroleum), acid-treated light naphthenic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ , and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-055-00-8	265-118-9	64742-19-4	

Substances	Index number	EC number	CAS number	Note
Distillates (petroleum), acid-treated heavy paraffinic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} , and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C).)	649-056-00-3	265-119-4	64742-20-7	
Distillates (petroleum), acid-treated light paraffinic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C_{15} through C_{30} and produces a finished oil having a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C).)	649-057-00-9	265-121-5	64742-21-8	
Distillates (petroleum), chemically neutralized heavy paraffinic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons obtained from a treating process to remove acidic materials. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} , and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains a relatively large proportion of aliphatic hydrocarbons.)	649-058-00-4	265-127-8	64742-27-4	
Distillates (petroleum), chemically neutralized light paraffinic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ , and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C).)	649-059-00-X	265-128-3	64742-28-5	
Distillates (petroleum), chemically neutralized heavy naphthenic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} , and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-060-00-5	265-135-1	64742-34-3	

Substances	Index number	EC number	CAS number	Notes
Distillates (petroleum), chemically neutralized light naphthenic; Unrefined or mildly refined baseoil (A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ , and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-061-00-0	265-136-7	64742-35-4	
erionite	650-012-00-0		12510-42-8	
asbestos	650-013-00-6		132207-33-1 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5	

Point 29 — Carcinogens: category 2

Substances	Index number	EC number	CAS number	Notes
beryllium	004-001-00-7	231-150-7	7440-41-7	
beryllium compounds with the exception of aluminium beryllium silicates	004-002-00-2			
sulfallate (ISO); 2-chlorallyl diethyl- dithiocarbamate	006-038-00-4	202-388-9	95-06-7	
dimethylcarbamoyl chloride	006-041-00-0	201-208-6	79-44-7	
diazomethane	006-068-00-8	206-382-7	334-88-3	
hydrazine	007-008-00-3	206-114-9	302-01-2	
N,N-dimethylhydrazine	007-012-00-5	200-316-0	57-14-7	
1,2-dimethylhydrazine	007-013-00-0		540-73-8	
salts of hydrazine	007-014-00-6			
hydrazobenzene; 1,2-diphenylhydrazine	007-021-00-4	204-563-5	122-66-7	
hydrazine bis(3-carboxy-4-hydroxyben-zensulfonate)	007-022-00-X	405-030-1		
hexamethylphosphoric triamide; hexamethylphosphoramide	015-106-00-2	211-653-8	680-31-9	
dimethyl sulphate	016-023-00-4	201-058-1	77-78-1	
diethyl sulphate	016-027-00-6	200-589-6	64-67-5	
1,3-propanesultone	016-032-00-3	214-317-9	1120-71-4	
dimethylsulfamoylchloride	016-033-00-9	236-412-4	13360-57-1	

	Substances	Index number	EC number	CAS number	Notes
▼ <u>M24</u>	Potassium dichromate	024-002-00-6	231-906-6	7778-50-9	
	Ammonium dichromate	024-003-00-1	232-143-1	7789-09-5	
	Sodium dichromate	024-004-00-7	234-190-3	10588-01-9	
	Sodiumdichromate, dihydrate	024-004-01-4	234-190-3	7789-12-0	
	Chromyl dichloride; chromic oxychloride	024-005-00-2	239-056-8	14977-61-8	
	Potassium chromate	024-006-00-8	232-140-5	7789-00-6	
▼ <u>M21</u>	calcium chromate	024-008-00-9	237-366-8	13765-19-0	
	strontium chromate	024-009-00-4	232-142-6	7789-06-2	
	chromium III chromate; chromic chromate	024-010-00-X	246-356-2	24613-89-6	
▼ <u>M24</u>	Chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in Annex I to Directive 67/548/EEC	024-017-00-8	_	-	
▼ <u>M21</u>	potassium bromate	035-003-00-6	231-829-8	7758-01-2	
	cadmium oxide	048-002-00-0	215-146-2	1306-19-0	
	cadmium chloride	048-008-00-3	233-296-7	10108-64-2	
	cadmium sulphate	048-009-00-9	233-331-6	10124-36-4	
	butane [1] and isobutane [2] (containing ≥ 0.1 % butadiene (203-450-8))	601-004-01-8	203-448-7[1] 200-857-2[2]	106-97-8[1] 75-28-5[2]	
	1,3-butadiene; buta-1,3-diene	601-013-00-X	203-450-8	106-99-0	
	benzo[a]pyrene; benzo[d,e,f]chrysene	601-032-00-3	200-028-5	50-32-8	
	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	
	benzo[b]fluoranthene; benzo[e]acephenanthrylene	601-034-00-4	205-911-9	205-99-2	
	benzo[j]fluoranthene	601-035-00-X	205-910-3	205-82-3	
	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	
	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	
	1,2-dibromoethane; ethylene dibromide	602-010-00-6	203-444-5	106-93-4	
	1,2-dichloroethane; ethylene dichloride	602-012-00-7	203-458-1	107-06-2	
	1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8	
▼ <u>M24</u>	Bromoethylene	602-024-00-2	209-800-6	593-60-2	
▼ <u>M21</u>	α, α, α -trichlorotoluene; benzotrichloride	602-038-00-9	202-634-5	98-07-7	

▼<u>M24</u>

Substances	Index number	EC number	CAS number	Notes
1,3-dichloro-2-propanol	602-064-00-0	202-491-9	96-23-1	
hexachlorobenzene	602-065-00-6	204-273-9	118-74-1	
1,4-dichlorobut-2-ene	602-073-00-X	212-121-8	764-41-0	
ethylene oxide; oxirane	603-023-00-X	200-849-9	75-21-8	
1-chloro-2,3-epoxypropane; epichlorhy-drin	603-026-00-6	203-439-8	106-89-8	
propylene oxide; 1,2-epoxypropane; methyloxirane	603-055-00-4	200-879-2	75-56-9	
styrene oxide; (epoxyethyl)benzene; phenyloxirane	603-084-00-2	202-476-7	96-09-3	
4-amino-3-fluorophenol	604-028-00-X	402-230-0	399-95-1	
5-Allyl-1,3-benzodioxole; safrole	605-020-00-9	202-345-4	94-59-7	
3-propanolide; 1,3-propiolactone	606-031-00-1	200-340-1	57-57-8	
urethane(INN); ethyl carbamate	607-149-00-6	200-123-1	51-79-6	
methyl acrylamidomethoxyacetate (containing ≥ 0.1 % acrylamid)	607-190-00-X	401-890-7	77402-03-0	
methyl acrylamidoglycolate (containing ≥ 0,1 % acrylamide)	607-210-00-7	403-230-3	77402-05-2	
acrylonitrile	608-003-00-4	203-466-5	107-13-1	
2-nitropropane	609-002-00-1	201-209-1	79-46-9	
5-nitroacenaphthene	609-037-00-2	210-025-0	602-87-9	
2-nitronaphthalene	609-038-00-8	209-474-5	581-89-5	
4-nitrobiphenyl	609-039-00-3	202-204-7	92-93-3	
nitrofen (ISO); 2,4-dichlorophenyl4- nitrophenyl ether	609-040-00-9	217-406-0	1836-75-5	
2-nitroanisole	609-047-00-7	202-052-1	91-23-6	
methyl-ONN-azoxymethyl acetate; methyl azoxy methyl acetate	611-004-00-2	209-765-7	592-62-1	
disodium {5-[(4'-((2,6-hydroxy-3-((2-hydroxy-5-sulphophenyl)azo)phenyl)azo)(1,1'-biphenyl)-4-yl)azo]salicylato(4-)}cuprate(2-); CI Direct Brown 95	611-005-00-8	240-221-1	16071-86-6	
4-o-tolylazo-o-toluidine; 4-amino-2',3-dimethylazobenzene; fast garnet GBC base; AAT; o-aminoazotoluene	611-006-00-3	202-591-2	97-56-3	
4-aminoazobenzene	611-008-00-4	200-453-6	60-09-3	

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	Substances	Index number	EC number	CAS number	Notes
▼ <u>M24</u>	Benzidine based azo dyes; 4,4'-diaryla-zobiphenyl dyes, with the exception of those specified elsewhere in Annex I to Directive 67/548/EEC	611-024-00-1	_	_	
	Disodium4-amino 3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphtalene-2,7-disulphonate; C.I. Direct Black 38	611-025-00-7	217-710-3	1937-37-7	
	Tetrasodium3,3'-[[1,1'-biphenyl]-4,4'-dylbis(azo)]bis[5-amino-4-hydroxy-naphthalene-2,7-disulphonate]; C.I. Direct Blue 6	611-026-00-2	220-012-1	2602-46-2	
	Disodium3,3'-[[1,1'-bifenyl]-4,4'dylbis(azo)]bis[4-aminonaphthalene-1-sulphonate); C.I. Direct Red 28	611-027-00-8	209-358-4	573-58-0	
▼ <u>M21</u>	2-methoxyaniline; o-anisidine,	612-035-00-4	201-963-1(o)	90-04-0	
	3,3'-dimethoxybenzidine; o-dianisidine	612-036-00-X	204-355-4	119-90-4	
	salts of 3,3'-dimethoxybenzidine; salts of o-dianisidine	612-037-00-5			
	3,3'-dimethylbenzidine; o-tolidine	612-041-00-7	204-358-0	119-93-7	
	4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline	612-051-00-1	202-974-4	101-77-9	
	3,3'-dichlorobenzidine; 3,3'-dichlorobi- phenyl-4,4'-ylenediamine	612-068-00-4	202-109-0	91-94-1	
	salts of 3,3'-dichlorobenzidine; salts of 3,3'-dichlorobiphenyl-4,4'-ylenediamine	612-069-00-X			
	N-nitrosodimethylamine; dimethylnitrosamine	612-077-00-3	200-549-8	62-75-9	
	2,2'-dichloro-4,4'-methylenedianiline; 4,4'-methylene bis(2-chloroaniline)	612-078-00-9	202-918-9	101-14-4	
	salts of 2,2'-dichloro-4,4-methylenedia- niline; salts of 4,4'-methylenebis(2- chloroaniline)	612-079-00-4			
	salts of 3,3'-dimethylbenzidine; salts of o-tolidine	612-081-00-5			
	1-methyl-3-nitro-1-nitrosoguanidine	612-083-00-6	200-730-1	70-25-7	
	4,4'-methylenedi-o-toluidine	612-085-00-7	212-658-8	838-88-0	
	2,2'-(nitrosoimino)bisethanol	612-090-00-4	214-237-4	1116-54-7	
	o-toluidine	612-091-00-X	202-429-0	95-53-4	
	nitrosodipropylamine	612-098-00-8	210-698-0	621-64-7	
	4-methyl-m-phenylenediamine	612-099-00-3	202-453-1	95-80-7	

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	Substances	Index number	EC number	CAS number	Notes
<u> 124</u>	Toluene-2,4-diammonium sulphate	612-126-00-9	265-697-8	65321-67-7	
<u>127</u>	4-chloraniline	612-137-00-9	203-401-0	106-47-8	
21	ethyleneimine; aziridine	613-001-00-1	205-793-9	151-56-4	
	2-methylaziridine; propyleneimine	613-033-00-6	200-878-7	75-55-8	
	captafol (ISO); 1,2,3,6-tetrahydro-N-(1,1,2,2-tetrachloroethylthio) phthalimide	613-046-00-7	219-363-3	2425-06-1	
	carbadox (INN); methyl 3-(quinoxalin- 2-ylmethylene)carbazate 1,4-dioxide; 2- (methoxycarbonylhydrazonomethyl)qui- noxaline 1,4-dioxide	613-050-00-9	229-879-0	6804-07-5	
	acrylamide	616-003-00-0	201-173-7	79-06-1	
	thioacetamide	616-026-00-6	200-541-4	62-55-5	
	Distillates (coal tar), benzole fraction; Light oil (A complex combination of hydrocarbons obtained by the distillation of coal tar. It consists of hydrocarbons having carbon numbers primarily in the range of C_4 to C_{10} and distilling in the approximate range of 80 °C to 160 °C (175 °F to 320° F).)	648-001-00-0	283-482-7	84650-02-2	
	Tar oils, brown-coal; Light oil (The distillate from lignite tar boiling in the range of approximately 80 °C to 250 °C (176° F to 482° F). Composed primarily of aliphatic and aromatic hydrocarbons and monobasic phenols.)	648-002-00-6	302-674-4	94114-40-6	J
	Benzol forerunnings (coal); Light oil redistillate, low boiling (The distillate from coke oven light oil having an approximate distillation range below 100 °C (212° F). Composed primarily of $\rm C_4$ to $\rm C_6$ aliphatic hydrocarbons.)	648-003-00-1	266-023-5	65996-88-5	J
	Distillates (coal tar), benzole fraction, BTX-rich; Light oil redistillate, low boiling (A residue from the distillation of crude benzole to remove benzole fronts. Composed primarily of benzene, toluene and xylenes boiling in the range of approximately 75 °C to 200 °C (167° F to 392° F).)	648-004-00-7	309-984-9	101896-26-8	J
	Aromatic hydrocarbons, $C_{6:10}$, C_8 -rich; Light oil redistillate, low boiling	648-005-00-2	292-697-5	90989-41-6	J
	Solvent naphtha (coal), light; Light oil redistillate, low boiling	648-006-00-8	287-498-5	85536-17-0	J
	Solvent naphtha (coal), xylene-styrene cut; Light oil redistillate, intermediate boiling	648-007-00-3	287-502-5	85536-20-5	J

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Substances	Index number	EC number	CAS number	Note
Solvent naphtha (coal), coumarone- styrene contg.; Light oil redistillate, intermediate boiling	648-008-00-9	287-500-4	85536-19-2	J
Naphtha (coal), distn. residues; Light oil redistillate, high boiling (The residue remaining from the distillation of recovered naphtha. Composed primarily of naphthalene and condensation products of indene and styrene.)	648-009-00-4	292-636-2	90641-12-6	J
Aromatic hydrocarbons, C ₈ ; Light oil redistillate, high boiling	648-010-00-X	292-694-9	90989-38-1	J
Aromatic hydrocarbons, $C_{s,0}$, hydrocarbon resin polymn. by-product; Light oil redistillate, high boiling (A complex combination of hydrocarbons obtained from the evaporation of solvent under vacuum from polymerized hydrocarbon resin. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C_s through C_o and boiling in the range of approximately 120 °C to 215 °C (248° C to 419° F).)	648-012-00-0	295-281-1	91995-20-9	J
Aromatic hydrocarbons, $C_{9,12}$, benzene distn.; Light oil redistillate, high boiling	648-013-00-6	295-551-9	92062-36-7	J
Extract residues (coal), benzole fraction alk., acid ext.; Light oil extract residues, low boiling (The redistillate from the distillate, freed of tar acids and tar bases, from bituminous coal high temperature tar boiling in the approximate range of 90 °C to 160 °C (194° F to 320° F). It consists predominantly of benzene, toluene and xylenes.)	648-014-00-1	295-323-9	91995-61-8	1
Extract residues (coal tar), benzole fraction alk., acd ext.; Light oil extract residues, low boiling (A complex combination of hydrocarbons obtained by the redistillation of the distillate of high temperature coal tar (tar acid and tar base free). It consists predominantly of unsubstituted and substituted mononuclear aromatic hydrocarbons boiling in the range of 85 °C—195 °C (185° F—383° F).)	648-015-00-7	309-868-8	101316-63-6	J
Extract residues (coal), benzole fraction acid; Light oil extract residues, low boiling (An acid sludge by-product of the sulphuric acid refining of crude high temperature coal. Composed primarily of sulfuric acid and organic compounds.)	648-016-00-2	298-725-2	93821-38-6	J

Substances	Index number	EC number	CAS number	Note
Extract residues (coal), light oil alk., distn. overheads; Light oil extract residues, low boiling (The first fraction from the distillation of aromatic hydrocarbons, coumarone, naphthalene and indene rich prefactionator bottoms or washed carbolic oil boiling substantially below 145 °C (293° F). Composed primarily of C ₇ and C ₈ aliphatic and aromatic hydrocarbons.)	648-017-00-8	292-625-2	90641-02-4	J
Extract residues (coal), light oil alk., acid ext., indene fraction; Light oil extract residues, intermediate boiling	648-018-00-3	309-867-2	101316-62-5	J
Extract residues (coal), light oil alk., indene naphtha fraction; Light oil extract residues, high boiling (The distillate from aromatic hydrocarbons, coumarone, naphthalene and indene rich prefractionator bottoms or washed carbolic oils, having an approximate boiling range of 155 °C to 180 °C (311° F to 356° F). Composed primarily of indene, indan and trimethylbenzenes.)	648-019-00-9	292-626-8	90641-03-5	J
Solvent naphtha (coal); Light oil extract residues, high boiling (The distillate from either high temperature coal tar, coke oven light oil, or coal tar oil alkaline extract residue having an approximate distillation range of 130 °C to 210 °C (266° F to 410° F) Composed primarily of indene and other polycyclic ring systems containing a single aromatic ring. May contain phenolic compounds and aromatic nitrogen bases.)	648-020-00-4	266-013-0	65996-79-4	J
Distillates (coal tar), light oils, neutral fraction; Light oil extract residues, high boiling (A distillate from the fractional distillation of high temperature coal tar. Composed primarily of alkyl-substituted one ring aromatic hydrocarbons boiling in the range of approximately 135 °C to 210 °C (275° F to 410° F). May also include unsaturated hydrocarbons such as indene and coumarone.)	648-021-00-X	309-971-8	101794-90-5	1
Distillates (coal tar), light oils, acid exts.; Light oil extract residues, high boiling (This oil is a complex mixture of aromatic hydrocarbons, primarily indene, naphthalene, coumarone, phenol and o-, m- and p-cresol and boiling in the range of 140 °C to 215 °C (284° F to 419° F).)	648-022-00-5	292-609-5	90640-87-2	J
Distillates (coal tar), light oils; Carbolic oil (A complex combination of hydrocarbons obtained by distillation of coal tar. It consists of aromatic and other hydrocarbons, phenolic compounds and aromatic nitrogen compounds and distills at the approximate range of 150 °C to 210 °C (302° F to 410° F).)	648-023-00-0	283-483-2	84650-03-3	J

	Substances	Index number	EC number	CAS number	Notes
	Tar oils, coal; Carbolic oil (The distillate from high temperature coal tar having an approximate distillation range of 130 °C to 250 °C (266° F to 410° F). Composed primarily of naphthalene, alkylnaphthalenes, phenolic compounds, and aromatic nitrogen bases.)	648-024-00-6	266-016-7	65996-82-9	J
7 <u>M24</u> 7 <u>M21</u>	Extract residues (coal), light oil alk., acid ext.; Carbolic oil extract residue (The oil resulting from the acid washing of alkali-washed carbolic oil to remove the minor amounts of basic compounds (tar bases). Composed primarily of indene, indan and alkylbenzenes.)	648-026-00-7	292-624-7	90641-01-3	J
	Extract residues (coal), tar oil alk.; Carbolic oil extract residue (The residue obtained from coal tar oil by an alkaline wash such as aqueous sodium hydroxide after the removal of crude coal tar acids. Composed primarily of naphthalenes and aromatic nitrogen bases.)	648-027-00-2	266-021-4	65996-87-4	J
	Extract oils (coal), light oil; Acid Extract (The aqueous extract produced by an acidic wash of alkali-washed carbolic oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.)	648-028-00-8	292-622-6	90640-99-6	J
	Pyridine, alkyl derivs.; Crude tar bases (The complex combination of polyalkylated pyridines derived from coal tar distillation or as high-boiling distillates approximately above 150 °C (302° F) from the reaction of ammonia with acetaldehyde, formaldehyde or paraformaldehyde.)	648-029-00-3	269-929-9	68391-11-7	J
	Tar bases, coal, picoline fraction; Distillate bases (Pyridine bases boiling in the range of approximately 125 °C to 160 °C (257° F to 320° F) obtained by distillation of neutralized acid extract of the base-containing tar fraction obtained by the distillation of bituminous coal tars. Composed chiefly of lutidines and picolines.)	648-030-00-9	295-548-2	92062-33-4	J
	Tar bases, coal, lutidine fraction; Distillate bases	648-031-00-4	293-766-2	91082-52-9	J
	Extract oils (coal), tar base, collidine fraction; Distillate bases (The extract produced by the acid extraction of bases from crude coal tar aromatic oils, neutralization, and distillation of the bases. Composed primarily of collidines, aniline, toluidines, lutidines, xylidines.)	648-032-00-X	273-077-3	68937-63-3	J

Substances	Index number	EC number	CAS number	Note
Tar bases, coal, collidine fraction; Distillate bases (The destillation fraction boiling in the range of approximately 181 °C to 186 °C (356° F to 367° F) from the crude bases obtained from the neutralized, acid-extracted base-containing tar fractions obtained by the distillation of bituminous coal tar. It contains chiefly aniline and collidines.)	648-033-00-5	295-543-5	92062-28-7	J
Tar Bases, coal, aniline fraction; Distillate bases (The destillation fraction boiling in the range of approximately 180 °C to 200 °C (356° F to 392° F) from the crude bases obtained by dephenolating and debasing the carbolated oil from the distillation of coal tar. It contains chiefly aniline, collidines, lutidines and toluidines.)	648-034-00-0	295-541-4	92062-27-6	J
Tar bases, coal, toluidine fraction; Distillate bases	648-035-00-6	293-767-8	91082-53-0	J
Distillates (petroleum), alkene-alkyene manuf. pyrolysis oil, mixed with hightemp. coal tar, indene fraction; Redistillates (A complex combination of hydrocarbons obtained as a redistillate from the fractional distillation of bituminous coal high temperature tar and residual oils that are obtained by the pyrolytic production of alkenes and alkynes from petroleum products or natural gas. It consists predominantly of indene and boils in a range of approximately 160 °C to 190 °C (320° F to 374° F).)	648-036-00-1	295-292-1	91995-31-2	J
Distillates (coal), coal tar-residual pyrolysis oils, naphthalene oils; Redistillates (The redistillate obtained from the fractional distillation of bituminous coal high temperature tar and pyrolysis residual oils and boiling in the range of approximately 190 °C to 270 °C (374 °F to 518 °F). Composed primarily of substituted dinuclear aromatics.)	648-037-00-7	295-295-8	91995-35-6	J
Extract oils (coal), coal tar-residual pyrolysis oils, naphthalene oil, redistillate; Redistillates (The redistillates (The redistillate from the fractional distillation of dephenolated and debased methylnaphthalene oil obtained from bituminous coal high temperature tar and pyrolysis residual oils boiling in the approximate range of 220 °C to 230 °C (428° F to 446° F). It consists predominantly of unsubstituted and substituted dinuclear aromatic hydrocarbons.)	648-038-00-2	295-329-1	91995-66-3	J
Extract oils (coal), coal tar-residual pyrolysis oils, naphthalene oils; Redistillates (A neutral oil obtained by debasing and dephenolating the oil obtained from the distillation of high temperature tar and pyrolysis residual oils which has a boiling range of 225 °C to 255 °C (437° F to 491° F). Composed primarily of substituted dinuclear aromatic hydrocarbons.)	648-039-00-8	310-170-0	122070-79-5	J

Substances	Index number	EC number	CAS number	Note
Extract oils (coal), coal tar residual pyrolysis oils, naphthalene oil, distn. residues; Redistillates (Residue from the distillation of dephenolated and debased methylnaphthalene oil (from bituminous coal tar and pyrolysis residual oils) with a boiling range of 240 °C to 260 °C (464° F to 500° F). Composed primarily of substituted dinuclear aromatic and heterocyclic hydrocarbons.)	648-040-00-3	310-171-6	122070-80-8	J
Absorption oils, bicyclo arom. and heterocyclic hydrocarbon fraction; Wash oil redistillate (A complex combination of hydrocarbons obtained as a redistillate from the distillation of wash oil. It consists predominantly of 2-ringed aromatic and heterocyclic hydrocarbons boiling in the range of approximately 260 °C to 290 °C (500° F to 554° F).)	648-041-00-9	309-851-5	101316-45-4	M
Distillates (coal tar), upper, fluorenerich; Wash oil redistillate (A complex combination of hydrocarbons obtained by the crystallization of tar oil. It consists of aromatic and polycyclic hydrocarbons primarily fluorene and some acenaphthene.)	648-042-00-4	284-900-0	84989-11-7	М
Creosote oil, acenaphthene fraction, acenaphthene-free; Wash oil redistillate (The oil remaining after removal by a crystallization process of acenaphthene from acenaphthene oil from coal tar. Composed primarily of naphthalene and alkylnaphthalenes.)	648-043-00-X	292-606-9	90640-85-0	M
Distillates (coal tar), heavy oils; Heavy anthracene oil (Distillate from the fractional distillation of coal tar of bituminous coal, with boiling range of 240 °C to 400 °C (464° F to 752° F). Composed primarily of triand polynuclear hydrocarbons and heterocyclic compounds.)	648-044-00-5	292-607-4	90640-86-1	
Anthracene oil, acid ext.; Anthracene oil extract residue (A complex combination of hydrocarbons from the base-freed fraction obtained from the distillation of coal tar and boiling in the range of approximately 325 °C to 365 °C (617° F to 689° F). It contains predominantly anthracene and phenanthrene and their alkyl derivatives.)	648-046-00-6	295-274-3	91995-14-1	M
Distillates (coal tar); Heavy anthracene oil (The distillate from coal tar having an approximate distillation range of 100 °C to 450 °C (212° F to 842° F). Composed primarily of two to four membered condensed ring aromatic hydrocarbons, phenolic compounds, and aromatic nitrogen bases.)	648-047-00-1	266-027-7	65996-92-1	M

Substances	Index number	EC number	CAS number	Note
Distillates (coal tar), pitch, heavy oils; Heavy anthracene oil (The distillate from the distillation of the pich obtained from bituminous high temperature tar. Composed primarily of tri- and polynuclear aromatic hydrocarbons and boiling in the range of approximately 300 °C to 470 °C (572° F to 878° F). The product may also contain heteroatoms.)	648-048-00-7	295-312-9	91995-51-6	М
Distillates (coal tar), pitch; Heavy anthracene oil (The oil obtained from condensation of the vapors from the heat treatment of pitch. Composed primarily of two- to four-ring aromatic compounds boiling in the range of 200 °C to greater than 400 °C (392° F to greater than 752° F.).)	648-049-00-2	309-855-7	101316-49-8	М
Distillates (coal tar), heavy oils, pyrene fraction; Heavy anthracene oil redistillate (The redistillate obtained from the fractional distillation of pitch distillate boiling in the range of approximately 350 °C to 400 °C (662° F to 752° F). Consists predominantly of tri- and polynuclear aromatic and heterocyclic hydrocarbons.)	648-050-00-8	295-304-5	91995-42-5	М
Distillates (coal tar), pitch, pyrene fraction; Heavy anthracene oil redistillate (The redistillate obtained from the fractional distillation of pitch distillate and boiling in the range of approximately 380 °C to 410 °C (716° F to 770° F). Composed primarily of tri- and polynuclear aromatic hydrocarbons and heterocyclic compounds.)	648-051-00-3	295-313-4	91995-52-7	М
Paraffin waxes (coal), brown-coal high-temp. tar, carbon-treated; Coal tar extract (A complex combination of hydrocarbons obtained by the treatment of lignite carbonization tar with activated carbon for removal of trace constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C ₁₂ .)	648-052-00-9	308-296-6	97926-76-6	М
Paraffin waxes (coal), brown-coal high-temp. tar, carbon-treated; Coal tar extract (A complex combination of hydrocarbons obtained by the treatment of lignite carbonization tar with bentonite for removal of trace constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C ₁₂ .)	648-053-00-4	308-297-1	97926-77-7	М
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Substances	Index number	EC number	CAS number	Note
Pitch, coal tar, high temp.; Pitch (The residue from the distillation of high temperature coal tar. A black solid with an approximate softening point from 30 °C to 180 °C (86° F to 356° F). Composed primarily of a complex mixture of three or more membered condensed ring aromatic hydrocarbons.)	648-055-00-5	266-028-2	65996-93-2	
Pitch, coal tar, high temp., heat-treated; Pitch (The heat treated residue from the distillation of high temperature coal tar. A black solid with an approximate softening point from 80 °C to 180 °C (176° F to 356° F). Composed primarily of a complex mixture of three or more membered condensed ring aromatic hydrocarbons.)	648-056-00-0	310-162-7	121575-60-8	M
Pitch, coal tar, high temp., secondary; Pitch redistillate (The residue obtained during the distillation of high boiling fractions from bituminous coal high temperature tar and/or pitch coke oil, with a softening point of 140 °C to 170 °C (284° F to 392° F) according to DIN 52025. Composed primarily of tri- and polynuclear aromatic compounds which also contain heteroatoms.)	648-057-00-6	302-650-3	94114-13-3	M
Residues (coal tar), pitch distn.; Pitch redistillate (Residue from the fractional distillation of pitch distillate boiling in the range of approximately 400 °C to 470 °C (752° F to 846° F). Composed primarily of polynuclear aromatic hydrocarbons, and heterocyclic compounds.)	648-058-00-1	295-507-9	92061-94-4	M
Tar, coal, high-temp., distn. and storage residues; Coal tar solids residue (Coke- and ash-containing solid residues that separate on distillation and thermal treatment of bituminous coal high temperature tar in distillation installations and Torage vessels. Consists predominantly of carbon and contains a small quantity of hero compounds as well as ash components.)	648-059-00-7	295-535-1	92062-20-9	M
Tar, coal, storage residues; Coal tar solids residue (The deposit removed from crude coal tar storages. Composed primarily of coal tar and carbonaceous particulate matter.)	648-060-00-2	293-764-1	91082-50-7	М
Tar, coal, high-temp., residues; Coal tar solids residue (Solids formed during the coking of bituminous coal to produce crude bituminous coal high temperature tar. Composed primarily of coke and coal particles, highly aromatized compounds and mineral substances.)	648-061-00-8	309-726-5	100684-51-3	М

Substances	Index number	EC number	CAS number	Note
Tar, coal, high-temp., high-solids; Coal tar solids residue (The condensation product obtained by cooling, to approximately ambient temperature, the gas evolved in the high temperature (greater than 700 °C (1292° F)) destructive distillation of coal. Composed primarily of a complex mixture of condensed ring aromatic hydrocarbons with a high solid content of coal-type materials.)	648-062-00-3	273-615-7	68990-61-4	M
Waste solids, coal-tar pitch coking; Coal tar solids residue (The combination of wastes formed by the coking of bituminous coal tar pitch. It consists predominantly of carbon.)	648-063-00-9	295-549-8	92062-34-5	М
Extract residues (coal), brown; Coal tar extract (The residue from extraction of dried coal.)	648-064-00-4	294-285-0	91697-23-3	М
Paraffin waxes (coal), brown-coal-high-temp. tar; Coal tar extract (A complex combination of hydrocarbons obtained from lignite carbonization tar by solvent crystallisation (solvent deoiling), by sweating or an adducting process. It consists predominantly of straight and branched chain saturated hydrocarbons having carbon numbers predominantly greater than C_{12} .)	648-065-00-X	295-454-1	92045-71-1	М
Paraffin waxes (coal), brown-coal-high-temp. tar, hydrotreated; Coal tar extract (A complex combination of hydrocarbons obtained from lignite carbonization tar by solvent crystallisation (solvent deoiling), by sweating or an adducting process treated with hydrogen in the presence of a catalyst. It consists predominantly of straight and branched chain saturated hydrocarbons having carbon numbers predominantly greater than C ₁₂ .)	648-066-00-5	295-455-7	92045-72-2	М
Paraffin waxes (coal), brown-coal high-temp tar, silicic acid-treated; Coal tar extract (A complex combination of hydrocabons obtained by the treatment of lignite carbonization tar with silicic acid for removal of trace constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C ₁₂ .)	648-067-00-0	308-298-7	97926-78-8	М
Tar, coal, low-temp., distn. residues; Tar oil, intermediate boiling (Residues from fractional distillation of low temperature coal tar to remove oils that boil in a range up to approximately 300 °C (572 °F). Composed primarily of aromatic compounds.)	648-068-00-6	309-887-1	101316-85-2	М

Substances	Index number	EC number	CAS number	Note
Pitch, coal tar, low-temp; Pitch residue (A complex black solid or semi-solid obtained from the distillation of a low temperature coal tar. It has a softening point within the approximate range of 40 °C to 180 °C (104 °F to 356 °F). Composed primarily of a complex mixture of hydrocarbons.)	648-069-00-1	292-651-4	90669-57-1	М
Pitch, coal tar, low-temp., oxidized; Pitch residue, oxidised (The product obtained by air-blowing, at elevated temperature, low-temperature coal tar pitch,. It has a softening-point within the approximate range of 70 °C to 180 °C (158 °F to 356 °F). Composed primarily of a complex mixture of hydrocarbons.)	648-070-00-7	292-654-0	90669-59-3	M
Pitch, coal tar, low-temp., heat-treated; Pitch residue, oxidised; Pitch residue, heat-treated (A complex black solid obtained by the heat treatment of low temperature coal tar pitch. It has a softening point within the approximate range of 50 °C to 140 °C (122 °F to 284 °F). Composed primarily of a complex mixture of aromatic compounds.)	648-071-00-2	292-653-5	90669-58-2	М
Distillates (coal-petroleum), condensed- ring arom; Distillates (The distillate from a mixture of coal and tar and aromatic petroleum streams having an approximate distillation range of 220 °C to 450 °C (428 °F to 842 °F). Composed primarily of 3- to 4- membered condensed ring aromatic hydrocarbons.)	648-072-00-8	269-159-3	68188-48-7	M
Aromatic hydrocarbons, C _{20.28} , polycyclic, mixed coal-tar pitch-polyethylene-polypropylene pyrolysis-derived; Pyrolysis products (A complex combination of hydrocarbons obtained from mixed coal tar pitch-polyethylene-polypropylene pyrolysis. Composed primarily of polycyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₂₈ and having a softening point of 100 °C to 220 °C (212 °F to 428 °F) according to DIN 52025.)	648-073-00-3	309-956-6	101794-74-5	M
Aromatic hydrocarbons, C ₂₀₋₂₈ , polycyclic, mixed coal-tar pitch-polyethylene pyrolysis-derived; Pyrolysis products (A complex combination of hydrocarbons obtained from mixed coal tar pitch-polyethylene pyrolysis. Composed primarily of polycyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₂₈ and having a softening point of 100 °C to 220 °C (212 °F to 428 °F) according to DIN 52025.)	648-074-00-9	309-957-1	101794-75-6	М

Substances	Index number	EC number	CAS number	Note
Aromatic hydrocarbons, C ₂₀₋₂₈ , polycyclic, mixed coal-tar pitch-polystyrene pyrolysis-derived; Pyrolysis products (A complex combination of hydrocarbons obtained from mixed coal tar pitch-polystyrene pyrolysis. Composed primarily of polycyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₂₈ and having a softening point of 100 °C to 220 °C (212 °F to 428 °F) according to DIN 52025.)	648-075-00-4	309-958-7	101794-76-7	М
Pitch, coal tar-petroleum; Pitch residues (The residue from the distillation of a mixture of coal tar and aromatic petroleum streams. A solid with a softening point from 40 °C to 180 °C (140 °F to 356 °F). Composed primarily of a complex combination of three or more membered condensed ring aromatic hydrocarbons.)	648-076-00-X	269-109-0	68187-57-5	М
Phenanthrene, distn. residues; Heavy anthracene oil redistillate (Residue from the distillation of crude phenanthrene boiling in the approximate range of 340 °C to 420 °C (644 °F to 788 °F). It consists predominantly of phenanthrene, anthracene and carbazole.)	648-077-00-5	310-169-5	122070-78-4	М
Distillates (coal tar), upper, fluorene- free; Wash oil redistillate (A complex combination of hydrocar- bons obtained by the crystallization of tar oil. It consists of aromatic polycyclic hydrocarbons, primarily diphenyl, dibenzofuran and acenaphthene.)	648-078-00-0	284-899-7	84989-10-6	М
Residues (coal tar), creosote oil distn.; Wash oil redistillate (The residue from the fractional distillation of wash oil boiling in the approximate range of 270 °C to 330 °C (518 °F to 626 °F). It consists predominantly of dinuclear aromatic and heterocyclic hydrocarbons.)	648-080-00-1	295-506-3	92061-93-3	M
Distillates (coal), coke-oven light oil, naphthalene cut; Naphthalene oil (The complex combination of hydrocarbons obtained from prefractionation (continuous distillation) of coke oven light oil. It consists predominantly of naphthalene, coumarone and indene and boils above 148 °C (298 °F).)	648-084-00-3	285-076-5	85029-51-2	J, N
Distillates (coal tar), naphthalene oils, naphthalene-low; Napththalene oil redistillate (A complex combination of hydrocarbons obtained by crystallization of naphthalene oil. Composed primarily of naphthalene, alkyl naphthalenes and phenolic compounds.)	648-086-00-4	284-898-1	84989-09-3	J, N

Substances	Index number	EC number	CAS number	Note
Distillates (coal tar), naphthalene oil crystn. mother liquor; Naphthalene oil redistillate (A complex combination of organic compounds obtained as a filtrate from the crystallization of the naphthalene fraction from coal tar and boiling in the range of approximately 200 °C to 230 °C (392 °F to 446 °F). Contains chiefly naphthalene, thionaphthene and alkylnaphthalenes.)	648-087-00-X	295-310-8	91995-49-2	J, M
Extract residues (coal), naphthalene oil, alk.; Naphthalene oil extract residue (A complex combination of hydrocarbons obtained from the alkali washing of naphthalene oil to remove phenolic compounds (tar acids). It is composed of naphthalene and alkyl naphthalenes.)	648-088-00-5	310-166-9	121620-47-1	J, N
Extract residues (coal), naphthalene oil, alk., naphthalene-low; Naphthalene oil extract residue (A complex combination of hydrocarbons remaining after the removal of naphthalene from alkali-washed naphthalene oil by a crystallization process. It is composed primarily of naphthalene and alkyl naphthalenes.)	648-089-00-0	310-167-4	121620-48-2	J, M
Distillates (coal tar), naphthalene oils, naphthalene-free, alk. exts.; Naphthalene oil extract residue (The oil remaining after the removal of phenolic compounds (tar acids) from drained naphthalene oil by an alkali wash. Composed primarily of naphthalene and alkyl naphthalenes.)	648-090-00-6	292-612-1	90640-90-7	J, M
Extract residues (coal), naphthalene oil alk., distn. overheads; Naphthalene oil extract residue (The distillation from alkali-washed naphthalene oil having an approximate distillation range of 180 °C to 220 °C (356 °F to 428 °F). Composed primarily of naphthalene, alkylbenzenes, indene and indan.)	648-091-00-1	292-627-3	90641-04-6	J, M
Distillates (coal tar), naphthalene oils, methylnaphthalene fraction; Methylnaphthalene oil (A distillate from the fractional distillation of high temperature coal tar. Composed primarily of substituted two ring aromatic hydrocarbons and aromatic nitrogen bases boiling in the range of approximately 225 °C to 255 °C (437 °F to 491 °F).)	648-092-00-7	309-985-4	101896-27-9	J, M
Distillates (coal tar), naphthalene oils, indole-methylnaphthalene fraction; Methylnaphthalene oil (A distillate from the fractional distillation of high temperature coal tar. Composed primarily of indole and methylnaphthalene boiling in the range of approximately 235 °C to 255 °C (455 °F to 491 °F).)	648-093-00-2	309-972-3	101794-91-6	J, M

Substances	Index number	EC number	CAS number	Note
Distillates (coal tar), naphthalene oils, acid exts.; Methylnaphtalene oil extract residue (A complex combination of hydrocarbons obtained by debasing the methylnaphthalene fraction obtained by the distillation of coal tar and boiling in the range of approximately 230 °C to 255 °C (446 °F to 491 °F). Contains chiefly 1(2)-methylnaphthalene, naphthalene, dimethylnaphthalene and biphenyl.)	648-094-00-8	295-309-2	91995-48-1	J, M
Extract residues (coal), naphthalene oil alk., distn. residues; Methylnaphthalene oil extract residue (The residue from the distillation of alkali-washed naphthalene oil having an approximate distillation range of 220 °C to 300 °C (428 °F to 572 °F). Composed primarily of naphthalene, alkylnaphthalenes and aromatic nitrogen bases.)	648-095-00-3	292-628-9	90641-05-7	J, N
Extract oils (coal), acidic, tar-base free; Methylnaphthalene oil extract residue (The extract oil boiling in the range of approximately 220 °C to 265 °C (428 °F to 509 °F) from coal tar alkaline extract residue produced by an acidic wash such as aqueous sulfuric acid after distillation to remove tar bases. Composed primarily of alkylnaphthalenes.)	648-096-00-9	284-901-6	84989-12-8	J, M
Distillates (coal tar), benzole fraction, distn. residues; Wash oil (A complex combination of hydrocarbons obtained from the distillation of crude benzole (high temperature coal tar). It may be a liquid with the approximate distillation range of 150 °C to 300 °C (302 °F to 572 °F) or a semi-solid or solid with a melting point up to 70 °C (158 °F). It is composed primarily of naphthalene and alkyl naphthalenes.)	648-097-00-4	310-165-3	121620-46-0	J, M
Creosote oil, high-boiling distillate; Wash oil (The high-boiling distillation fraction obtained from the high temperature carbonization of bituminous coal which is further refined to remove excess crystalline salts. It consists primarily of creosote oil with some of the normal polynuclear aromatic salts, which are components of coal tar distillates, removed. It is crystal free at approximately 5 °C (41 °F).)	648-100-00-9	274-565-9	70321-79-8	J, N
Extract residues (coal), creosote oil acid; Wash oil extract residue (A complex combination of hydrocarbons from the base-freed fraction from the distillation of coal tar, boiling in the range of approximately 250 °C to 280 °C (482 °F to 536 °F). It consists predominantly of biphenyl and isomeric diphenylnaphthalenes.)	648-102-00-X	310-189-4	122384-77-4	J, M

Substances	Index number	EC number	CAS number	Note
Anthracene oil, anthracene paste; Anthracene oil fraction (The anthracene-rich solid obtained by the crystallization and centrifuging of anthracene oil. It is composed primarily of anthracene, carbazole and phenan- threne.)	648-103-00-5	292-603-2	90640-81-6	J, M
Anthracene oil, anthracene-low; Anthracene oil fraction (The oil remaining after the removal, by a crystallization process, of an anthracene-rich solid (anthracene paste) from anthracene oil. It is composed primarily of two, three and four membered aromatic compounds.)	648-104-00-0	292-604-8	90640-82-7	J, N
Residues (coal tar), anthracene oil distn.; Anthracene oil fraction (The residue from the fraction distilla- tion of crude anthracene boiling in the approximate range of 340 °C to 400 °C (644 °F to 752 °F). It consists predomi- nantly of tri- and polynuclear aromatic and heterocyclic hydrocarbons.)	648-105-00-6	295-505-8	92061-92-2	J, N
Anthracene oil, anthracene paste, anthracene fraction; Anthracene oil fraction (A complex combination of hydrocarbons from the distillation of anthracene obtained by the crystallization of anthracene oil from bituminous high temperature tar and boiling in the range of 330 °C to 350 °C (626 °F to 662 °F). It contains chiefly anthracene, carbazole and phenanthrene.)	648-106-00-1	295-275-9	91995-15-2	J, M
Anthracene oil, anthracene paste, carbazole fraction; Anthracene oil fraction (A complex combination of hydrocarbons from the distillation of anthracene obtained by crystallization of anthrancene oil from bituminous coal high temperature tar and boiling in the approximate range of 350 °C to 360 °C (662 °F to 680 °F). It contains chiefly anthracene, carbazole and phenanthrene.)	648-107-00-7	295-276-4	91995-16-3	J, N
Anthracene oil, anthracene paste, distn. lights; Anthracene oil fraction (A complex combination of hydrocarbons from the distillation of anthracene obtained by crystallization of anthracene oil from bituminous light temperature tar and boiling in the range of approximately 290 °C to 340 °C (554 °F to 644 °F). It contains chiefly trinuclear aromatics and their dihydro derivatives.)	648-108-00-2	295-278-5	91995-17-4	J, N
Tar oils, coal, low-temp.; Tar oil, high boiling (A distillate from low-temperature coal tar. Composed primarily of hydrocarbons, phenolic compounds and aromatic nitrogen bases boiling in the range of approximately 160 °C to 340 °C (320 °F to 644 °F).)	648-109-00-8	309-889-2	101316-87-4	J, N

Substances	Index number	EC number	CAS number	Note
Phenols, ammonia liquor ext.; Alkaline extract (The combination of phenols extracted, using isobutyl acetate, from the ammonia liquor condensed from the gas evolved in low-temperature (less than 700 °C (1292 °F)) destructive distillation of coal. It consists predominantly of a mixture of monohydric and dihydric phenols.)	648-111-00-9	284-881-9	84988-93-2	J, N
Distillates (coal tar), light oils, alk. exts.; Alkaline extract (The aqueous extract from carbolic oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.)	648-112-00-4	292-610-0	90640-88-3	J, N
Extracts, coal tar oil alk.; Alkaline extract (The extract from coal tar oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.)	648-113-00-X	266-017-2	65996-83-0	J, N
Distillates (coal tar), naphthalene oils, alk. exts.; Alkaline extract (The aqueous extract from naphthalene oil produced by an alkaline wash such as aqueous sodium hydroxid. Composed primarily of the alkali salts of various phenolic compounds.)	648-114-00-5	292-611-6	90640-89-4	J, N
Extract residues (coal), tar oil alk., carbonated, limed; Crude phenols (The product obtained by treatment of coal tar oil alkaline extract with CO ₂ and CaO. Composed primarily of CaCO ₃ , Ca(OH) ₂ , Na ₂ CO ₃ and other organic and inorganic impurities.)	648-115-00-0	292-629-4	90641-06-8	J, N
Tar acids, brown-coal, crude; Crude phenols (An acidified alkaline extract of brown coal tar distillate. Composed primarily of phenol and phenol homologs.)	648-117-00-1	309-888-7	101316-86-3	J, M
Tar acids, brown-coal gasification; Crude phenols (A complex combination of organic compounds obtained from brown coal gasification. Composed primarily of C ₆₋₁₀ hydroxy aromatic phenols and their homologs.)	648-118-00-7	295-536-7	92062-22-1	J, N
Tar acids, distn. residues; Distillate phenols (A residue from the distillation of crude phenol from coal. It consists predominantly of phenols having carbon numbers in the range of C ₈ through C ₁₀ with a softening point of 60 °C to 80 °C (140 °F to 176 °F).)	648-119-00-2	306-251-5	96690-55-0	J, N
Tar acids, methylphenol fraction; Distillate phenols (The fraction of tar acid rich in 3- and 4-methylphenol, recovered by distillation of low-temperature coal tar crude tar acids.)	648-120-00-8	284-892-9	84989-04-8	J, N

Substances	Index number	EC number	CAS number	Note
Tar acids, polyalkylphenol fraction; Distillate phenols (The fraction of tar acids, recovered by distillation of low-temperature coal tar crude tar acids, having an approximate boiling range of 225 °C to 320 °C (437 °F to 608 °F). Composed primarily of polyalkylphenols.)	648-121-00-3	284-893-4	84989-05-9	J, N
Tar acids, xylenol fraction; Distillate phenols (The fraction of tar acids, rich in 2,4-and 2,5-dimethylphenol, recovered by distillation of low-temperature coal tar crude tar acids.)	648-122-00-9	284-895-5	84989-06-0	J, N
Tar acids, ethylphenol fraction; Distillate phenols (The fraction of tar acids, rich in 3- and 4-ethylphenol, recovered by distillation of low-temperature coal tar crude tar acids.)	648-123-00-4	284-891-3	84989-03-7	J, M
Tar acids, 3,5-xylenol fraction; Distillate phenols (The fraction of tar acids, rich in 3,5-dimethylphenol, recovered by distillation of low-temperature coal tar acids.)	648-124-00-X	284-896-0	84989-07-1	J, M
Tar acids, residues, distillates, first-cut; Distillate phenols (The residue from the distillation in the range of 235 °C to 355 °C (481 °F to 697 °F) of light carbolic oil.)	648-125-00-5	270-713-1	68477-23-6	J, M
Tar acids, cresylic, residues; Distillate phenols (The residue from crude coal tar acids after removal of phenol, cresols, xylenols and any higher boiling phenols. A black solid with a melting point approximately 80 °C (176 °F). Composed primarily of polyalkyphenols, resin gums, and inorganic salts.)	648-126-00-0	271-418-0	68555-24-8	J, N
Phenols, C ₉₋₁₁ ; Distillate phenols	648-127-00-6	293-435-2	91079-47-9	J, M
Tar acids, cresylic; Distillate phenols (A complex combination of organic compounds obtained from brown coal and boiling in the range of approximately 200 °C to 230 °C (392 °F to 446 °F). It contains chiefly phenols and pyridine bases.)	648-128-00-1	295-540-9	92062-26-5	J, M
Tar acids, brown-coal, C ₂ -alkylphenol fraction; Distillate phenols (The distillate from the acidification of alkaline washed lignite tar distillate boiling in the range of approximately 200 °C to 230 °C (392 °F to 446 °F). Composed primarily of m- and pethylphenol as well as cresols and xylenols.)	648-129-00-7	302-662-9	94114-29-1	J, M

Substances	Index number	EC number	CAS number	Note
Extract oils (coal), naphthalene oils; Acid extract (The aqueous extract produced by an acidic wash of alkali-washed naphthalene oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.)	648-130-00-2	292-623-1	90641-00-2	J, N
Tar bases, quinoline derivs.; Distillate bases	648-131-00-8	271-020-7	68513-87-1	J, N
Tar bases, coal, quinoline derivs. fraction; Distillate bases	648-132-00-3	274-560-1	70321-67-4	J, N
Tar bases, coal, distn. residues; Distillate bases (The distillation residue remaining after the distillation of the neutralized, acid-extracted base-containing tar fractions obtained by the distillation of coal tars. It contains chiefly aniline, collidines, quinoline and quinoline derivatives and toluidines.)	648-132-00-9	274-544-0	92062-29-8	J, N
Hydrocarbon oils, arom., mixed with polyethylene and polypropylene, pyrolyzed, light oil fraction; Heat treatment products (The oil obtained from the heat treatment of a polyethylene/polypropylene mixture with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of approximately 70 °C to 120 °C (158 °F to 248 °F).)	648-134-00-4	309-745-9	100801-63-6	J, M
Hydrocarbon oils, arom., mixed with polyethylene, pyrolyzed, light oil fraction; Heat treatment products (The oil obtained from the heat treatment of polyethylene with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of 70 °C to 120 °C (158 °F to 248 °F).)	648-135-00-X	309-748-5	100801-65-8	J, M
Hydrocarbon oils, arom., mixed with polystyrene, pyrolyzed, light oil fraction; Heat treatment products (The oil obtained from the heat treatment of polystyrene with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of approximately 70 °C to 210 °C (158 °F to 410 °F).)	648-136-00-5	309-749-0	100801-66-9	J, N
Extract residues (coal), tar oil alk., naphthalene distn. residues; Naphthalene oil extract residue (The residue obtained from chemical oil extracted after the removal of naphthalene by distillation composed primarily of two to four membered condensed ring aromatic hydrocarbons and aromatic nitrogen bases.)	648-137-00-0	277-567-8	736665-18-6	J, N

Substances	Index number	EC number	CAS number	Note
Creosote oil, low-boiling distillate; Wash oil (The low-boiling distillation fraction obtained from the high temperature carbonization of bituminous coal, which is further refined to remove excess crystalline salts. It consists primarily of creosote oil with some of the normal polynuclear aromatic salts, which are components of coal tar distillate, removed. It is crystal free at approximately 38 °C (100 °F).)	648-138-00-6	274-566-4	70321-80-1	J, M
Tar acids, cresylic, sodium salts, caustic solns.; Alkaline extract	648-139-00-1	272-361-4	68815-21-4	J, M
Extract oils (coal), tar base; Acid extract (The extract from coal tar oil alkaline extract residue produced by an acidic wash such as aqueous sulfuric acid after distillation to remove naphthalene. Composed primarily of the acid salts of various aromatic nitrogen bases including pyridine, quinoline, and their alkyl derivatives.)	648-140-00-7	266-020-9	65996-86-3	J, M
Tar bases, coal, crude; Crude tar bases (The reaction product obtained by neutralizing coal tar base extract oil with an alkaline solution, such as aqueous sodium hydroxide, to obtain the free bases. Composed primarily of such organic bases as acridine, phenanthridine, pyridine, quinoline and their alkyl derivatives.)	648-141-00-2	266-018-8	65996-84-1	J, M
Residues (coal), liq. solvent extn.; (A cohesive powder composed of coal mineral matter and undissolved coal remaining after extraction of coal by a liquid solvent.)	648-142-00-8	302-681-2	94114-46-2	М
Coal liquids, liq. solvent extn. soln.; (The product obtained by filtration of coal mineral matter and undissolved coal from coal extract solution produced by digesting coal in a liquid solvent. A black, viscous, highly complex liquid combination composed primarily of aromatic and partly hydrogenated aromatic hydrocarbons, aromatic nitrogen compounds, aromatic sulfur compounds, phenolic and other aromatic oxygen compounds and their alkyl derivatives.)	648-143-00-3	302-682-8	94114-47-3	M
Coal liquids, liq. solvent extn.; (The substantially solvent-free product obtained by the distillation of the solvent from filtered coal extract solution produced by digesting coal in a liquid solvent. A black semi-solid, composed primarily of a complex combination of condensed-ring aromatic hydrocarbons, aromatic nitrogen compounds, aromatic sulfur compounds, phenolic compounds and other aromatic oxygen compounds, and their alkyl derivatives.)	648-144-00-9	302-683-3	94114-48-4	М

Substances	Index number	EC number	CAS number	Note
Light oil (coal), coke-oven; Crude benzole (The volatile organic liquid extracted from the gas evolved in the high temperature (greater than 700 °C (1292 °F)) destructive distillation of coal. Composed primarily of benzene, toluene, and xylenes. May contain other minor hydrocarbon constituents.)	648-147-00-5	266-012-5	65996-78-3	J
Distillates (coal), liq. solvent extn., primary; (The liquid product of condensation of vapours emitted during the digestion of coal in a liquid solvent and boiling in the range of approximately 30 °C to 300 °C (86 °F to 572 °F). Composed primarily of partly hydrogenated condensed-ring aromatic hydrocarbons, aromatic compounds containing nitrogen, oxygen and sulfur, and their alkyl derivatives having carbon numbers predominantly in the range of $\mathrm{C_4}$ through $\mathrm{C_{14}}$.)	648-148-00-0	302-688-0	94114-52-0	J
Distillates (coal), solvent extn., hydrocracked; (Distillate obtained by hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction process and boiling in the range of approximately 30 °C to 300 °C (86 °F to 572 °F). Composed primarily of aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes with carbon numbers predominantly in the range of C ₄ through C ₁₄ . Nitrogen, sulfur and oxygen-containing aromatic and hydrogenated aromatic compounds are also present.)	648-149-00-6	302-689-6	94114-53-1	J
Naphtha (coal), solvent extn., hydrocracked; (Fraction of the distillate obtained by hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 30 °C to 180 °C (86 °F to 356 °F). Composed primarily of aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes with carbon numbers predominantly in the range of C ₄ to C ₉ . Nitrogen, sulfur and oxygen-containing aromatic and hydrogenated aromatic compounds are also present.)	648-150-00-1	302-690-1	94114-54-2	J
Gasoline, coal solvent extn., hydrocracked naphtha; (Motor fuel produced by the reforming of the refined naphtha fraction of the products of hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 30 °C to 180 °C (86 °F to 356 °F). Composed primarily of aromatic and naphthenic hydrocarbons, their alkyl derivatives and alkyl hydrocarbons having carbon numbers in the range of C_4 through C_9 .)	648-151-00-7	302-691-7	94114-55-3	J

Substances	Index number	EC number	CAS number	Note
Distillates (coal), solvent extn., hydrocracked middle; (Distillate obtained from the hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 180 °C to 300 °C (356 °F to 572 °F). Composed primarily of two-ring aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes having carbon numbers predominantly in the range of C ₉ through C ₁₄ . Nitrogen, sulfur and oxygen-containing compounds are also present.)	648-152-00-2	302-692-2	94114-56-4	J
Distillates (coal), solvent extn., hydrocracked hydrogenated middle; (Distillate from the hydrogenation of hydrocracked middle distillate from coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 180 °C to 280 °C (356 °F to 536 °F). Composed primarily of hydrogenated two-ring carbon compounds and their alkyl derivatives having carbon numbers predominantly in the range of C ₉ through C ₁₄ .)	648-153-00-8	302-693-8	94114-57-5	J
Light oil (coal), semi-coking process; Fresh oil (The volatile organic liquid condensed from the gas evolved in the low temperature (less than 700 °C (1292 °F)) destructive distillation of coal. Composed primarily of C ₆₋₁₀ hydrocarbons.)	648-156-00-4	292-635-7	90641-11-5	J
Extracts (petroleum), light naphthenic distillate solvent	649-001-00-3	265-102-1	64742-03-6	
Extracts (petroleum), heavy paraffinic distillate solvent	649-002-00-9	265-103-7	64742-04-7	
Extracts (petroleum), light paraffinic distillate solvent	649-003-00-4	265-104-2	6472-05-8	
Extracts (petroleum), heavy naphthenic distillate solvent	649-004-00-X	265-111-0	64742-11-6	
Extracts (petroleum), light vacuum gas oil solvent	649-005-00-5	295-341-7	91995-78-7	
Hydrocarbons C ₂₆₋₅₅ , aromrich	649-006-00-0	307-753-7	97722-04-8	
Residues (petroleum), atm. tower; Heavy fuel oil (A complex residuum from the atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly greater than C ₂₀ and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-008-00-1	265-045-2	64741-45-3	

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Substances	Index number	EC number	CAS number	Notes
Gas oils (petroleum), heavy vacuum; Heavy fuel oil (A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} and boiling in the range of approximately 350 °C to 600 °C (662 °F to 1112 °F). This stream is likely to contain 5 wt. % more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-009-00-7	265-058-3	64741-57-7	
Distillates (petroleum), heavy catalytic cracked; Heavy fuel oil (A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₅ and boiling in the range of approximately 260 °C to 500 °C (500 °F to 932 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-010-00-2	265-063-0	64741-61-3	
Clarified oils (petroleum), catalytic cracked; Heavy fuel oil (A complex combination of hydrocarbons produced as the residual fraction from distillation of the products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly greater than C ₂₀ and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-011-00-8	265-064-6	64741-62-4	
Residues (petroleum), hydrocracked; Heavy fuel oil (A complex combination of hydrocarbons produced as the residual fraction from distillation of the products of a hydrocracking process. It consists of hydrocarbons having carbon numbers predominantly greater than C ₂₀ and boiling above approximately 350 °C (662 °F).)	649-012-00-3	265-076-1	64741-75-9	
Residues (petroleum), thermal cracked; Heavy fuel oil (A complex combination of hydrocarbons produced as the residual fraction from distillation of the product from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly greater than C ₂₀ and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-013-00-9	265-081-9	64741-80-6	

Substances	Index number	EC number	CAS number	Notes
Distillates (petroleum), heavy thermal cracked; Heavy fuel oil (A complex combination of hydrocarbons from the distillation of the products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₆ and boiling in the range of approximately 260 °C to 480 °C (500 °F to 896 °F). This stream is likely to contain 5 wt. % or more or 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-014-00-4	265-082-4	64741-81-7	
Gas oils (petroleum), hydrotreated vacuum; Heavy fuel oil (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{13} through C_{50} and boiling in the range of approximately 230 °C to 600 °C (446 °F to 1112 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-015-00-X	265-162-9	64742-59-2	
Residues (petroleum) hydrodesulfurized atmospheric tower; Heavy fuel oil (A complex combination of hydrocarbons obtained by treating an atmospheric tower residuum with hydrogen in the presence of a catalyst under conditions primarily to remove organic sulfur compounds. It consists of hydrocarbons having carbon numbers predominantly greater than C ₂₀ and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-016-00-5	265-181-2	64742-78-5	
Gas oils (petroleum), hydrodesulfurized heavy vacuum; Heavy fuel oil (A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₅₀ and boiling in the range of approximately 350 °C to 600 °C (662 °F to 1112 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-017-00-0	265-189-6	64742-86-5	
Residues (petroleum), steam-cracked; Heavy fuel oil (A complex combination of hydrocarbons obtained as the residual fraction from the distillation of the products of a steam cracking process (including steam cracking to produce ethylene). It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly greater than C ₁₄ and boiling above approximately 260 °C (500 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-018-00-6	265-193-8	64742-90-1	

Substances	Index number	EC number	CAS number	Notes
Residues (petroleum), atmospheric; Heavy fuel oil (A complex residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly greater than C ₁₁ and boiling above approximately 200 °C (392 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-019-00-1	269-777-3	68333-22-2	
Clarified oils (petroleum), hydrodesulfurized catalytic cracked; Heavy fuel oil (A complex combination of hydrocarbons obtained by treating catalytic cracked clarified oil with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly greater than C ₂₀ and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-020-00-7	269-782-0	68333-26-6	
Distillates (petroleum), hydrodesulfurized intermediate catalytic cracked; Heavy fuel oil (A complex combination of hydrocarbons obtained by treating intermediate catalytic cracked distillates with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₁ through C ₃₀ and boiling in the range of approximately 205 °C to 450 °C (401 °F to 842 °F). It contains a relatively large proportion of tricyclic aromatic hydrocarbons.)	649-021-00-2	269-783-6	68333-27-7	
Distillates (petroleum), hydrodesulfurized heavy catalytic cracked; Heavy fuel oil (A complex combination of hydrocarbons obtained by treatment of heavy catalytic cracked distillates with hydrogen to convert organic sulfur to hydrogen sulfide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₅ and boiling in the range of approximately 260 °C to 500 °C (500 °F to 932 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-022-00-8	269-784-1	68333-28-8	
Fuel oil, residues-straight-run gas oils, high-sulfur; Heavy fuel oil	649-023-00-3	270-674-0	68476-32-4	
Fuel oil, residual; Heavy fuel oil (The liquid product from various refinery streams, usually residues. The composition is complex and varies with the source of the crude oil.)	649-024-00-9	270-675-6	68476-33-5	

Substances	Index number	EC number	CAS number	Notes
Residues (petroleum), catalytic reformer fractionator residue distn.; Heavy fuel oil (A complex residuum from the distillation of catalytic reformer fractionator residue. It boils above approximately 399 °C (750 °F).)	649-025-00-4	270-792-2	68478-13-7	
Residues (petroleum), heavy coker gas oil and vacuum gas oil; Heavy fuel oil (A complex combination of hydrocarbons produced as the residual fraction from the distillation of heavy coker gas oil and vacuum gas oil. It predominantly consists of hydrocarbons having carbon numbers predominantly greater than C ₁₃ and boiling above approximately 230 °C (446 °F).)	649-026-00-X	270-796-4	68478-17-1	
Residues (petroleum), heavy coker and light vacuum; Heavy fuel oil (A complex combination of hydrocarbons produced as the residual fraction from the distillation of heavy coker gas oil and light vacuum gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C ₁₃ and boiling above approximately 230 °C (446 °F).)	649-027-00-5	270-983-0	68512-61-8	
Residues (petroleum), light vacuum; Heavy fuel oil (A complex residuum from the vacuum distillation of the residuum from the atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly greater than C ₁₃ and boiling above approximately 230 °C (446 °F).)	649-028-00-0	270-984-6	68512-62-9	
Residues (petroleum), steam-cracked light; Heavy fuel oil (A complex residuum from the distillation of the products from a steam-cracking process. It consists predominantly of aromatic and unsaturated hydrocarbons having carbon numbers greater than C ₇ and boiling in the range of approximately 101 °C to 555 °C (214 °F to 1030 °F).)	649-029-00-6	271-013-9	68513-69-9	
Fuel oil, No 6; Heavy fuel oil (A distillate oil having a minimum viscosity of 900 SUS at 37,7 °C (100 °F) to a maximum of 9000 SUS at 37,7 °C (100 °F).)	649-030-00-1	271-384-7	68553-00-4	
Residues (petroleum), topping plant, low-sulfur; Heavy fuel oil (A low-sulfur complex combination of hydrocarbons produced as the residual fraction from the topping plant distillation of crude oil. It is the residuum after the straight-run gasoline cut, kerosene cut and gas oil cut have been removed.)	649-031-00-7	271-763-7	68607-30-7	

Substances	Index number	EC number	CAS number	Notes
Gas oils (petroleum), heavy atmospheric; Heavy fuel oil (A complex combination of hydrocarbons obtained by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₃₅ and boiling in the range of approximately 121 °C to 510 °C (250 °F to 950 °F).)	649-032-00-2	272-184-2	68783-08-4	
Residues (petroleum), coker scrubber, Condensed-ring-aromcontg.; Heavy fuel oil (A very complex combination of hydrocarbons produced as the residual fraction from the distillation of vacuum residuum and the products from a thermal cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C ₂₀ and boiling above approximately 350 °C (662 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-033-00-8	272-187-9	68783-13-1	
Distillates (petroleum), petroleum residues vacuum; Heavy fuel oil (A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from the atmospheric distillation of crude oil.)	649-034-00-3	273-263-4	68955-27-1	
Residues (petroleum), steam-cracked, resinous; Heavy fuel oil (A complex residuum from the distillation of steam-cracked petroleum residues.)	649-035-00-9	273-272-3	68955-36-2	
Distillates (petroleum), intermediate vacuum; Heavy fuel oil (A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{14} through C_{42} and boiling in the range of approximately 250 °C to 545 °C (482 °F to 1013 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-036-00-4	274-683-0	70592-76-6	
Distillates (petroleum), light vacuum; Heavy fuel oil (A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{11} through C_{35} and boiling in the range of approximately 250 °C to 545 °C (482 °F to 1013 °F).)	649-037-00-X	247-684-6	70592-77-7	

Substances	Index number	EC number	CAS number	Note
Distillates (petroleum), vacuum; Heavy fuel oil (A complex combination of hydrocarbons produced by the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having numbers predominantly in the range of C ₁₅ through C ₅₀ and boiling in the range of approximately 270 °C to 600 °C (518 °F to 1112 °F). This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-038-00-5	274-685-1	70592-78-8	
Gas oils (petroleum), hydrodesulphurized coker heavy vacuum; Heavy fuel oil (A complex combination of hydrocarbons obtained by hydrodesulphurization of heavy coker distillate stocks. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range C ₁₈ to C ₄₄ and boiling in the range of approximately 304 °C to 548 °C (579 °F to 1018 °F). Likely to contain 5 % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-039-00-0	285-555-9	85117-03-9	
Residues (petroleum), steam-cracked, distillates; Heavy fuel oil (A complex combination of hydrocarbons obtained during the production of refined petroleum tar by the distillation of steam cracked tar. It consists predominantly of aromatic and other hydrocarbons and organic sulfur compounds.)	649-040-00-6	292-657-7	90669-75-3	
Residues (petroleum), vacuum, light; Heavy fuel oil (A complex residuum from the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C ₂₄ and boiling above approximately 390 °C (734 °F).)	649-041-00-1	292-658-2	90669-76-4	
Fuel oil, heavy, high-sulphur; Heavy fuel oil (A complex combination of hydrocarbons obtained by the distillation of crude petroleum. It consists predominantly of aliphatic, aromatic and cycloaliphatic hydrocarbons having carbon numbers predominantly higher than C ₂₅ and boiling above approximately 400 °C (752 °F).)	649-042-00-7	295-396-7	92045-14-2	
Residues (petroleum), catalytic cracking; Heavy fuel oil (A complex combination of hydrocarbons produced as the residual fraction from the distillation of the products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly greater than C ₁₁ and boiling above approximately 200 °C (392 °F).)	649-043-00-2	295-511-0	92061-97-7	

Substances	Index number	EC number	CAS number	Notes
Distillates (petroleum), intermediate catalytic cracked, thermally degraded; Heavy fuel oil (A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process which has been used as a heat transfer fluid. It consists predominantly of hydrocarbons boiling in the range of approximately 220 °C to 450 °C (428 °F to 842 °F). This stream is likely to contain organic sulfur compounds.)	649-044-00-8	295-990-6	92201-59-7	Notes
Residual oils (petroleum); Heavy fuel oil (A complex combination of hydrocarbons, sulfur compounds and metal-containing organic compounds obtained as the residue from refinery fractionation cracking processes. It produces a finished oil with a viscosity above 2 cSt. at 100 °C.)	649-045-00-3	298-754-0	93821-66-0	
Residues, steam cracked, thermally treated; Heavy fuel oil (A complex combination of hydrocarbons obtained by the treatment and distillation of raw steam-cracked naphtha. It consists predominantly of unsaturated hydrocarbons boiling in the range above approximately 180 °C (356 °F).)	649-046-00-9	308-733-0	98219-64-8	
Distillates (petroleum), hydrodesulphurized full-range middle; Heavy fuel oil (A complex combination of hydrocarbons obtained by treating a petroleum stock with hydrogen. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₉ through C ₂₅ and boiling in the range of approximately 150 °C to 400 °C (302 °F to 752 °F).)	649-047-00-4	309-863-0	101316-57-8	
Residues (petroleum), catalytic reformer fractionator; Heavy fuel oil (A complex combination of hydrocarbons produced as the residual fraction from distillation of the product from a catalytic reforming process. It consists of predominantly aromatic hydrocarbons having carbon numbers predominantly in the range of C ₁₀ through C ₂₅ and boiling in the range of approximately 160 °C to 400 °C (320 °F to 725 °F). This stream is likely to contain 5 wt. % or more of 4- or 6-membered condensed ring aromatic hydrocarbons.)	649-048-00-X	265-069-3	64741-67-9	
Petroleum; Crude oil (A complex combination of hydrocarbons. It consists predominantly of aliphatic, alicyclic and aromatic hydrocarbons. It may also contain small amounts of nitrogen, oxygen and sulfur compounds. This category encompasses light, medium, and heavy petroleums, as well as the oils extended from tar sands. Hydrocarbonaceous materials requiring major chemical changes for their recovery or conversion to petroleum refinery feedstocks such as crude shale oils; upgraded shale oils and liquid coal fuels are not included in this definition.)	649-049-00-5	232-298-5	8002-05-9	

Substances	Index number	EC number	CAS number	Note
Gases (petroleum), catalytic cracked naphtha depropanizer overhead, C ₃ -rich acid-free; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation of catalytic cracked hydrocarbons and treated to remove acidic impurities. It consists of hydrocarbons having carbon numbers in the range of C ₂ through C ₄ , predominantly C ₃ .)	649-062-00-6	270-755-0	68477-73-6	K
Gases (petroleum), catalytic cracker; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of the products from a catalytic cracking process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_6 .)	649-063-00-1	270-756-6	68477-74-7	K
Gases (petroleum), catalytic cracker, C_1 - s -rich; Petroleum gas (A complex combination of hydrocar- bons produced by the distillation of products from a catalytic cracking process. It consists of aliphatic hydro- carbons having carbon numbers in the range of C_1 through C_6 , predominantly C_1 through C_5 .)	649-064-00-7	270-757-1	68477-75-8	K
Gases (petroleum), catalytic polymd. naphtha stabilizer overhead, C_{2-4} -rich; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilization of catalytic polymerized naphtha. It consists of aliphatic hydrocarbons having carbon numbers in the range of C_2 through C_6 , predominantly C_2 through C_4 .)	649-065-00-2	270-758-7	68477-76-9	K
Gases (petroleum), catalytic reformer, $C_{1,4}$ -rich; Petroleum gas (A complex combination of hydrocarbons produced by distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers in the range of C_1 through C_6 , predominantly C_1 through C_4 .)	649-066-00-8	270-760-8	68477-79-2	K
Gases (petroleum), C ₃₋₅ olefinic-paraffinic alkylation feed; Petroleum gas (A complex combination of olefinic and paraffinic hydrocarbons having carbon numbers in the range of C ₃ through C ₅ which are used as alkylation feed. Ambient temperatures normally exceed the critical temperature of these combinations.)	649-067-00-3	270-765-5	68477-83-8	K
Gases (petroleum), C_4 -rich; Petroleum gas (A complex combination of hydrocarbons produced by distillation of products from a catalytic fractionation process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C_3 through C_5 , predominantly C_4 .)	649-068-00-9	270-767-6	68477-85-0	K

Substances	Index number	EC number	CAS number	Note
Gases (petroleum), deethanizer overheads; Petroleum gas (A complex combination of hydrocarbons produced from distillation of the gas and gasoline fractions from the catalytic cracking process. It contains predominantly ethane and ethylene.)	649-069-00-4	270-768-1	68477-86-1	K
Gases (petroleum), deisobutanizer tower overheads; Petroleum gas (A complex combination of hydrocarbons produced by the atmospheric distillation of a butane-butylene stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₄ .)	649-070-00-X	270-769-7	68477-87-2	K
Gases (petroleum), depropanizer dry, propene-rich; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of products from the gas and gasoline fractions of a catalytic cracking process. It consists predominantly of propylene with some ethane and propane.)	649-071-00-5	270-772-3	68477-90-7	K
Gases (petroleum), depropanizer overheads; Petroleum gas (A complex combination of hydrocarbons produced by distillation of products from the gas and gasoline fractions of a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C_2 through C_4 .)	649-072-00-0	270-773-9	68477-91-8	K
Gases (petroleum), gas recovery plant depropanizer overheads; Petroleum gas (A complex combination of hydrocarbons obtained by fractionation of miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₁ through C ₄ , predominantly propane.)	649-073-00-6	270-777-0	68477-94-1	K
Gases (petroleum), Girbatol unit feed; Petroleum gas (A complex combination of hydrocarbons that is used as the feed into the Girbatol unit to remove hydrogen sulfide. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₄ .)	649-074-00-1	270-778-6	68477-95-2	K
Gases (petroleum), isomerized naphtha fractionator, C ₄ -rich, hydrogen sulfidefree; Petroleum gas	649-075-00-7	270-782-8	68477-99-6	K
Tail gas (petroleum), catalytic cracked clarified oil and thermal cracked vacuum residue fractionation reflux drum; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation of catalytic cracked clarified oil and thermal cracked vacuum residue. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of $\mathrm{C_1}$ through $\mathrm{C_6}$.)	649-076-00-2	270-802-5	68478-21-7	K

Substances	Index number	EC number	CAS number	Notes
Tail gas (petroleum), catalytic cracked naphtha stabilization absorber; Petroleum gas (A complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of $\rm C_1$ through $\rm C_6$.)	649-077-00-8	270-803-0	68478-22-8	K
Tail gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfurizer combined fractionater; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation of products from catalytic cracking, catalytic reforming and hydrodesulfurizing processes treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5 .)	649-078-00-3	270-804-6	68478-24-0	К
Tail gas (petroleum), catalytic reformed naphtha fractionation stabilizer; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilization of catalytic reformed naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_4 .)	649-079-00-9	270-806-7	68478-26-2	K
Tail gas (petroleum), saturate gas plant mixed stream, C_4 -rich; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilization of straight-run naphtha, distillation tail gas and catalytic reformed naphtha stabilizer tail gas. It consists of hydrocarbons having carbon numbers in the range of C_3 through C_6 , predominantly butane and isobutane.)	649-080-00-4	270-813-5	68478-32-0	K
Tail gas (petroleum), saturate gas recovery plant, C _{1,2} -rich; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation of distillate tail gas, straight-run naphtha, catalytic reformed naphtha stabilizer tail gas. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₁ through C ₅ , predominantly methane and ethane.)	649-081-00-X	270-814-0	68478-33-1	K
Tail gas (petroleum), vacuum residues thermal cracker; Petroleum gas (A complex combination of hydrocarbons obtained from the thermal cracking of vacuum residues. It consists of hydrocarbons having carbon numbers predominantly in the range of $\mathrm{C_1}$ through $\mathrm{C_5}$.)	649-082-00-5	270-815-6	68478-34-2	K
Hydrocarbons, $C_{3,4}$ -rich, petroleum distillate; Petroleum gas (A complex combination of hydrocarbons produced by distillation and condensation of crude oil. It consists of hydrocarbons having carbon numbers in the range of C_3 through C_5 , predominantly C_3 through C_4 .)	649-083-00-0	270-990-9	68512-91-4	K

Substances	Index number	EC number	CAS number	Notes
Gases (petroleum), full-range straight-run naphtha dehexanizer off; Petroleum gas (A complex combination of hydrocarbons obtained by the fractionation of the full-range straight-run naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C_2 through C_6 .)	649-084-00-6	271-000-8	68513-15-5	К
Gases (petroleum), hydrocracking depropanizer off, hydrocarbon-rich; Petroleum gas (A complex combination of hydrocarbon produced by the distillation of products from a hydrocracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ . It may also contain small amounts of hydrogen and hydrogen sulfide.)	649-085-00-1	271-001-3	68513-16-6	K
Gases (petroleum), light straight-run naphtha stabilizer off; Petroleum gas (A complex combination of hydrocarbons obtained by the stabilization of light straight-run naphtha. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of $\rm C_2$ through $\rm C_6$.)	649-086-00-7	271-002-9	68513-17-7	K
Residues (petroleum), alkylation splitter, C_4 -rich; Petroleum gas (A complex residuum from the distillation of streams from various refinery operations. It consists of hydrocarbons having carbon numbers in the range of C_4 through C_5 , predominantly butane, and boiling in the range of approximately $-11,7$ °C to $27,8$ °C (11 °F to 82 °F).)	649-087-00-2	271-010-2	68513-66-6	K
Hydrocarbons, C_{1-4} , sweetened; Petroleum gas (A complex combination of hydrocarbons obtained by subjecting hydrocarbon gases to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_4 and boiling in the range of approximately -164 °C to -0.5 °C (-263 °F to 31 °F).)	649-089-00-3	271-038-5	68514-36-3	К
Hydrocarbons, $C_{1.3}$; Petroleum gas (A complex combination of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_3 and boiling in the range of approximately – 164 °C to – 42 °C (– 263 °F to – 44 °F).)	649-090-00-9	271-259-7	68527-16-2	K
Hydrocarbons, C ₁₋₄ , debutanizer fraction; Petroleum gas	649-091-00-4	271-261-8	68527-19-5	K
Gases (petroleum), C_{1-5} , wet; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of crude oil and/or the cracking of tower gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5 .)	649-092-00-X	271-624-0	68602-83-5	К

Substances	Index number	EC number	CAS number	Note
Hydrocarbons, C _{2.4} ; Petroleum gas	649-093-00-5	271-734-9	68606-25-7	K
Hydrocarbons, C ₃ ; Petroleum gas	649-094-00-0	271-735-4	68606-26-8	K
Gases (petroleum), alkylation feed; Petroleum gas (A complex combination of hydrocarbons produced by the catalytic cracking of gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₄ .)	649-095-00-6	271-737-5	68606-27-9	K
Gases (petroleum), depropanizer bottoms fractionation off; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation of depropanizer bottoms. It consists predominantly of butane, isobutane and butadiene.)	649-096-00-1	271-742-2	68606-34-8	K
Gases (petroleum), refinery blend; Petroleum gas (A complex combination obtained from various processes. It consists of hydrogen, hydrogen sulfide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-097-00-7	272-183-7	68783-07-3	K
Gases (petroleum), catalytic cracking; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of the products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₅ .)	649-098-00-2	272-203-4	68783-64-2	K
Gases (petroleum), C_{2-4} , sweetened; Petroleum gas (A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers predominantly in the range of C_2 through C_4 and boiling in the range of approximately – 51 °C to – 34 °C (– 60 °F to – 30 °F).)	649-099-00-8	272-205-5	68783-65-3	K
Gases (petroleum), crude oil fractionation off; Petroleum gas (A complex combination of hydrocarbons produced by the fractionation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-100-00-1	272-871-7	68918-99-0	K
Gases (petroleum), dehexanizer off; Petroleum gas (A complex combination of hydrocarbons obtained by the fractionation of combined naphtha streams. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-101-00-7	272-872-2	68919-00-6	K

Substances	Index number	EC number	CAS number	Note
Gases (petroleum), light straight run gasoline fractionation stabilizer off; Petroleum gas (A complex combination of hydrocarbons obtained by the fractionation of light straight-run gasoline. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5 .)	649-102-00-2	272-878-5	68919-05-1	K
Gases (petroleum), naphtha unifiner desulfurization stripper off; Petroleum gas (A complex combination of hydrocarbons produced by a naphtha unifiner desulfurization process and stripped from the naphtha product. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_4 .)	649-103-00-8	272-879-0	68919-06-2	K
Gases (petroleum), straight-run naphtha catalytic reforming off; Petroleum gas (A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and fractionation of the total effluent. It consists of methane, ethane, and propane.)	649-104-00-3	272-882-7	68919-09-5	K
Gases (petroleum), fluidized catalytic cracker splitter overheads; Petroleum gas (A complex combination of hydrocarbons produced by the fractionation of the charge to the C ₃ -C ₄ splitter. It consists predominantly of C ₃ hydrocarbons.)	649-105-00-9	272-893-7	68919-20-0	K
Gases (petroleum), straight-run stabilizer off; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation of the liquid from the first tower used in the distillation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)	649-106-00-4	272-883-2	68919-10-8	K
Gases (petroleum), catalytic cracked naphtha debutanizer; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation of catalytic cracked naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of $\mathbf{C_1}$ through $\mathbf{C_4}$.)	649-107-00-X	273-169-3	68952-76-1	K
Tail gas (petroleum), catalytic cracked distillate and naphtha stabilizer; Petroleum gas (A complex combination of hydrocarbons obtained by the fractionation of catalytic cracked naphtha and distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)	649-108-00-5	273-170-9	68952-77-2	K

Substances	Index number	EC number	CAS number	Note
Tail gas (petroleum), thermal-cracked distillate, gas oil and naphtha absorber; Petroleum gas (A complex combination of hydrocarbons obtained from the separation of thermal-cracked distillates, naphtha and gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of \mathbf{C}_1 through \mathbf{C}_6 .)	649-109-00-0	273-175-6	68952-81-8	K
Tail gas (petroleum), thermal cracked hydrocarbon fractionation stabilizer, petroleum coking; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilization of thermal cracked hydrocarbons from a petroleum coking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_6 .)	649-110-00-6	273-176-1	68952-82-9	K
Gases (petroleum, light steam-cracked, butadiene conc.; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of products from a thermal cracking process. It consists of hydrocarbons having a carbon number predominantly of C ₄ .)	649-111-00-1	273-265-5	68955-28-2	K
Gases (petroleum), straight-run naphtha catalytic reformer stabilizer overhead; Petroleum gas (A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and the fractionation of the total effluent. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of $\rm C_2$ through $\rm C_4$.)	649-112-00-7	273-270-2	68955-34-0	K
Hydrocarbons, C ₄ ; Petroleum gas	649-113-00-2	289-339-5	87741-01-3	K
Alkanes, C ₁₋₄ , C ₃ -rich; Petroleum gas	649-114-00-8	292-456-4	90622-55-2	K
Gases (petroleum), steam-cracker C ₃ -rich; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of products from a steam cracking process. It consists predominantly of propylene with some propane and boils in the range of approximately – 70 °C to 0 °C (– 94 °F to 32 °F).)	649-115-00-3	295-404-9	92045-22-2	К
Hydrocarbons, C ₄ , steam-cracker distillate; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of the products of a steam cracking process. It consists predominantly of hydrocarbons having a carbon number of C ₄ , predominantly 1-butene and 2-butene, containing also butane and isobutene and boiling in the range of approximately – 12 °C to 5 °C (10.4 °F to 41 °F).)	649-116-00-9	295-405-4	92045-23-3	K

Substances	Index number	EC number	CAS number	Note
Petroleum gases, liquefied, sweetened, C ₄ fraction; Petroleum gas (A complex combination of hydrocarbons obtained by subjecting a liquified petroleum gas mix to a sweetening process to oxidize mercaptans or to remove acidic impurities. It consists predominantly of C ₄ saturated and unsaturated hydrocarbons.)	649-117-00-4	295-463-0	92045-80-2	K
Hydrocarbons, C ₄ , 1,3-butadiene-and isobutene-free; Petroleum gas	649-118-00-X	306-004-1	95465-89-7	K
Raffinates (petroleum), steam-cracked C ₄ fraction cuprous ammonium acetate extn., C ₃₋₅ and C ₃₋₅ unsatd., butadienefree; Petroleum gas	649-199-00-5	307-769-4	97722-19-5	K
Gases (petroleum), amine system feed; Refinery gas (The feed gas to the amine system for removal of hydrogen sulphide. It consists primarily of hydrogen. Carbon monoxide, carbon dioxide, hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5 may also be present.)	649-120-00-0	270-746-1	68477-65-6	K
Gases (petroleum), benzene unit hydrodesulphurizer off; Refinery gas (Off gases produced by the benzene unit. It consists primarily of hydrogen. Carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ , including benzene, may also be present.)	649-121-00-6	270-747-7	68477-66-7	K
Gases (petroleum), benzene unit recycle, hydrogen-rich; Refinery gas (A complex combination of hydrocarbons obtained by recycling the gases of the benzene unit. It consists primarily of hydrogen with various small amounts of carbon monoxide and hydrocarbons having carbon numbers in the range of C ₁ through C ₆ .)	649-122-00-1	270-748-2	68477-67-8	K
Gases (petroleum), blend oil, hydrogennitrogen-rich; Refinery gas (A complex combination of hydrocarbons obtained by distillation of a blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide, and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-123-00-7	270-749-8	68477-68-9	K
Gases (petroleum), catalytic reformed naphtha stripper overheads; Refinery gas (A complex combination of hydrocarbons obtained from stabilization of catalytic reformed naphtha. It consists of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)	649-124-00-2	270-759-2	68477-77-0	K

Substances	Index number	EC number	CAS number	Note
Gases (petroleum), C_{6-8} catalytic reformer recycle; Refinery gas (A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C_6 - C_8 feed and recycled to conserve hydrogen. It consists primarily of hydrogen. It may also contain various small amounts of carbon monoxide, carbon dioxide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C_1 through C_6 -)	649-125-00-8	270-761-3	68477-80-5	K
Gases (petroleum), C_{6-8} catalytic reformer; Refinery gas (A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C_6 - C_8 feed. It consists of hydrocarbons having carbon numbers in the range of C_1 through C_5 and hydrogen.)	649-126-00-3	270-762-9	68477-81-6	K
Gases (petroleum), C ₆₋₈ catalytic reformer recycle, hydrogen-rich; Refinery gas	649-127-00-9	270-763-4	68477-82-7	K
Gases (petroleum), C ₂ -return stream; Refinery gas (A complex combination of hydrocarbons obtained by the extraction of hydrogen from a gas stream which consists primarily of hydrogen with small amounts of nitrogen, carbon monoxide, methane, ethane, and ethylene. It contains predominantly hydrocarbons such as methane, ethane, and ethylene with small amounts of hydrogen, nitrogen and carbon monoxide.)	649-128-00-4	270-766-0	68477-84-9	K
Gases (petroleum), dry sour, gas-concnunit-off; Refinery gas (The complex combination of dry gases from a gas concentration unit. It consists of hydrogen, hydrogen sulphide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .)	649-129-00-X	270-774-4	68477-92-9	K
Gases (petroleum), gas concn. reabsorber distn.; Refinery gas (A complex combination of hydrocarbons produced by distillation of products from combined gas streams in a gas concentration reabsorber. It consists predominantly of hydrogen, carbon monoxide, carbon dioxide, nitrogen, hydrogen sulphide and hydrocarbons having carbon numbers in the range of C_1 through C_3 .)	649-130-00-5	270-776-5	68477-93-0	K
Gases (petroleum), hydrogen absorber off; Refinery gas (A complex combination obtained by absorbing hydrogen from a hydrogen rich stream. It consists of hydrogen, carbon monoxide, nitrogen, and methane with small amounts of C ₂ hydrocarbons.)	649-131-00-0	270-779-1	68477-96-3	K

Substances	Index number	EC number	CAS number	Not
Gases (petroleum), hydrogen-rich; Refinery gas (A complex combination separated as a gas from hydrocarbon gases by chilling. It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and $\rm C_2$ hydrocarbons.)	649-132-00-6	270-780-7	68477-97-4	К
Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas (A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-133-00-1	270-781-2	68477-98-5	К
Gases (petroleum), recycle, hydrogenrich; Refinery gas (A complex combination obtained from recycled reactor gases. It consists primarily of hydrogen with various small amounts of carbon monoxide, carbon dioxide, nitrogen, hydrogen sulphide, and saturated aliphatic hydrocarbons having carbon numbers in the range of C_1 through C_5 .)	649-134-00-7	270-783-3	68478-00-2	K
Gases (petroleum), reformer make-up, hydrogen-rich; Refinery gas (A complex combination obtained from the reformers. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5 .)	649-135-00-2	270-784-9	68478-01-3	K
Gases (petroleum), reforming hydrotreater; Refinery gas (A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen, methane, and ethane with various small amounts of hydrogen sulphide and aliphatic hydrocarbons having carbon numbers predominantly in the range C ₃ through C ₅ .)	649-136-00-8	270-785-4	68478-02-4	K
Gases (petroleum), reforming hydrotreater, hydrogen-methane-rich; Refinery gas (A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen and methane with various small amounts of carbon monoxide, carbon dioxide, nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₅ .)	649-137-00-3	270-787-5	68478-03-5	K

Substances	Index number	EC number	CAS number	Note
Gases (petroleum), reforming hydrotreater make-up, hydrogen-rich; Refinery gas (A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-138-00-9	270-788-0	68478-04-6	K
Gases (petroleum), thermal cracking distn.; Refinery gas (A complex combination produced by distillation of products from a thermal cracking process. It consists of hydrogen, hydrogen sulphide, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)	649-139-00-4	270-789-6	68478-05-7	K
Tail gas (petroleum), catalytic cracker refractionation absorber; Refinery gas (A complex combination of hydrocarbons obtained from refractionation of products from a catalytic cracking process. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .)	649-140-00-X	270-805-1	68478-25-1	K
Tail gas (petroleum), catalytic reformed naphtha separator; Refinery gas (A complex combination of hydrocarbons obtained from the catalytic reforming of straight-run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)	649-141-00-5	270-807-2	68478-27-3	K
Tail gas (petroleum), catalytic reformed naphtha stabilizer; Refinery gas (A complex combination of hydrocarbons obtained from the stabilization of catalytic reformed naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C_1 through C_6 .)	649-142-00-0	270-808-8	68478-28-4	K
Tail gas (petroleum), cracked distillate hydrotreater separator; Refinery gas (A complex combination of hydrocarbons obtained by treating cracked distillates with hydrogen in the presence of a catalyst. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5 .)	649-143-00-6	270-809-3	68478-29-5	K
Tail gas (petroleum), hydrodesulphurized straight-run naphtha separator; Refinery gas (A complex combination of hydrocarbons obtained from hydrodesulphurization of straight-run naphtha. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)	649-144-00-1	270-810-9	68478-30-8	К

Substances	Index number	EC number	CAS number	Notes
Gases (petroleum), catalytic reformed straight-run naphtha stabilizer overheads; Refinery gas (A complex combination of hydrocarbons obtained from the catalytic reforming of straight-run naphtha followed by fractionation of the total effluent. It consists of hydrogen, methane, ethane and propane.)	649-145-00-7	270-999-8	68513-14-4	K
Gases (petroleum), reformer effluent high-pressure flash drum off; Refinery gas (A complex combination produced by the high-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.)	649-146-00-2	271-003-4	68513-18-8	K
Gases (petroleum), reformer effluent low-pressure flash drum off; Refinery gas (A complex combination produced by low-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.)	649-147-00-8	271-005-5	68513-19-9	К
Gases (petroleum), oil refinery gas distn. off; Refinery gas (A complex combination separated by distillation of a gas stream containing hydrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers in the range of C ₁ through C ₆ or obtained by cracking ethane and propane. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₂ , hydrogen, nitrogen, and carbon monoxide.)	649-148-00-3	271-258-1	68527-15-1	K
Gases (petroleum), benzene unit hydrotreater depentanizer overheads; Refinery gas (A complex combination produced by treating the feed from the benzene unit with hydrogen in the presence of a catalyst followed by depentanizing. It consists primarily of hydrogen, ethane and propane with various small amounts of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ . It may contain trace amounts of benzene.)	649-149-00-9	271-623-5	68602-82-4	K
Gases (petroleum), secondary absorber off, fluidized catalytic cracker overheads fractionator; Refinery gas (A complex combination produced by the fractionation of the overhead products from the catalytic cracking process in the fluidized catalytic cracker. It consists of hydrogen, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .)	649-150-00-4	271-625-6	68602-84-6	K

Substances	Index number	EC number	CAS number	Note
Petroleum products, refinery gases; Refinery gas (A complex combination which consists primarily of hydrogen with various small amounts of methane, ethane and propane.)	649-151-0-X	271-750-6	68607-11-4	K
Gases (petroleum), hydrocracking low-pressure separator; Refinery gas (A complex combination obtained by the liquid-vapour separation of the hydrocracking process reactor effluent. It consists predominantly of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .)	649-152-00-5	272-182-1	68783-06-2	K
Gases (petroleum), refinery; Refinery gas (A complex combination obtained from various petroleum refining operations. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .)	649-153-00-0	272-338-9	68814-67-5	K
Gases (petroleum), platformer products separator off; Refinery gas (A complex combination obtained from the chemical reforming of naphthenes to aromatics. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C_2 through C_4 .)	649-154-00-6	272-343-6	68814-90-4	K
Gases (petroleum), hydrotreated sour kerosine depentanizer stabilizer off; Refinery gas (The complex combination obtained from the depentanizer stabilization of hydrotreated kerosine. It consists primarily of hydrogen, methane, ethane, and propane with various small amounts of nitrogen, hydrogen sulphide, carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₅ .)	649-155-00-1	272-775-5	68911-58-0	K
Gases (petroleum), hydrotreated sour kerosine flash drum; Refinery gas (A complex combination obtained from the flash drum of the unit treating sour kerosine with hydrogen in the presence of a catalyst. It consists primarily of hydrogen and methane with various small amounts of nitrogen, carbon monoxide, and hydro-carbons having carbon numbers predominantly in the range of C ₂ through C ₅ .)	649-156-00-7	272-776-0	68911-59-1	K
Gases (petroleum), distillate unifiner desulphurization stripper off; Refinery gas (A complex combination stripped from the liquid product of the unifiner desulphurization process. It consists of hydrogen sulphide, methane, ethane, and propane.)	649-157-00-2	272-873-8	68919-01-7	K

Substances	Index number	EC number	CAS number	Note
Gases (petroleum), fluidized catalytic cracker fractionation off; Refinery gas (A complex combination produced by the fractionation of the overhead product of the fluidized catalytic cracking process. It consists of hydrogen, hydrogen sulphide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-158-00-8	272-874-3	68919-02-8	K
Gases (petroleum), fluidized catalytic cracker scrubbing secondary absorber off; Refinery gas (A complex combination produced by scrubbing the overhead gas from the fluidized catalytic cracker. It consists of hydrogen, nitrogen, methane, ethane and propane.)	649-159-00-3	272-875-9	68919-03-9	K
Gases (petroleum), heavy distillate hydrotreater desulphurization stripper off; Refinery gas (A complex combination stripped from the liquid product of the heavy distillate hydrotreater desulphurization process. It consists of hydrogen, hydrogen sulphide, and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of $\rm C_1$ through $\rm C_5$.)	649-160-00-9	272-876-4	68919-04-0	K
Gases (petroleum), platformer stabilizer off, light ends fractionation; Refinery gas (A complex combination obtained by the fractionation of the light ends of the platinum reactors of the plattformer unit. It consists of hydrogen, methane, ethane and propane.)	649-161-00-4	272-880-6	68919-07-3	K
Gases (petroleum), preflash tower off, crude distn.; Refinery gas (A complex combination produced from the first tower used in the distillation of crude oil. It consists of nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-162-00-X	272-881-1	68919-08-4	K
Gases (petroleum), tar stripper off; Refinery gas (A complex combination obtained by the fractionation of reduced crude oil. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)	649-163-00-5	272-884-8	68919-11-9	K
Gases (petroleum), unifiner stripper off; Refinery gas (A combination of hydrogen and methane obtained by fractionation of the products from the unifiner unit.)	649-164-00-0	272-885-3	68919-12-0	K
Tail gas (petroleum), catalytic hydrodesulphurized naphtha separator; Refinery gas (A complex combination of hydrocarbons obtained from the hydrodesulphurization of naphtha. It consists of hydrogen, methane, ethane, and propane.)	649-165-00-6	273-173-5	68952-79-4	K

Substances	Index number	EC number	CAS number	Notes
Tail gas (petroleum), straight-run naphtha hydrodesulphurizer; Refinery gas (A complex combination obtained from the hydrodesulphurization of straight-run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5 .)	649-166-00-1	273-174-0	68952-80-7	K
Gases (petroleum), sponge absorber off, fluidized catalytic cracker and gas oil desulphurizer overhead fractionation; Refinery gas (A complex combination obtained by the fractionation of products from the fluidized catalytic cracker and gas oil desulphurizer. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)	649-167-00-7	273-269-7	68955-33-9	K
Gases (petroleum), crude distn. and catalytic cracking; Refinery gas (A complex combination produced by crude distillation and catalytic cracking processes. It consists of hydrogen, hydrogen sulphide, nitrogen, carbon monoxide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of $\mathrm{C_1}$ through $\mathrm{C_6}$.)	649-168-00-2	273-563-5	68989-88-8	K
Gases (petroleum), gas oil diethanolamine scrubber off; Refinery gas (A complex combination produced by desulphurization of gas oils with diethanolamine. It consists predominantly of hydrogen sulphide, hydrogen and aliphatic hydrocarbons having carbon numbers in the range of C ₁ through C ₅ .)	649-169-00-8	295-397-2	92045-15-3	K
Gases (petroleum), gas oil hydrodesulphurization effluent; Refinery gas (A complex combination obtained by separation of the liquid phase from the effluent from the hydrogenation reaction. It consists predominantly of hydrogen, hydrogen sulphide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .)	649-170-00-3	295-398-8	92045-16-4	K
Gases (petroleum), gas oil hydrodesulphurization purge; Refinery gas (A complex combination of gases obtained from the reformer and from the purges from the hydrogenation reactor. It consists predominantly of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_4 .)	649-171-00-9	295-399-3	92045-17-5	K
Gases (petroleum), hydrogenator effluent flash drum off; Refinery gas (A complex combination of gases obtained from flash of the effluents after the hydrogenation reaction. It consists predominantly of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)	649-172-00-4	295-400-7	92045-18-6	K

Substances	Index number	EC number	CAS number	Note
Gases (petroleum), naphtha steam cracking high-pressure residual; Refinery gas (A complex combination obtained as a mixture of the non-condensable portions from the product of a naphtha steam cracking process as well as residual gases obtained during the preparation of subsequent products. It consists predominantly of hydrogen and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ with which natural gas may also be mixed.)	649-173-00-X	295-401-2	92045-19-7	K
Gases (petroleum), residue visbaking off; Refinery gas (A complex combination obtained from viscosity reduction of residues in a furnace. It consists predominantly of hydrogen sulphide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5 .)	649-174-00-5	295-402-8	92045-20-0	K
Foots oil (petroleum), acid-treated; Foots oil (A complex combination of hydrocarbons obtained by treatment of Foot's oil with sulphuric acid. It consists predominantly of branched-chain hydrocarbons with carbon numbers predominantly in the range of $\rm C_{20}$ through $\rm C_{50}$.)	649-175-00-0	300-225-7	93924-31-3	L
Foots oil (petroleum), clay-treated; Foots oil (A complex combination of hydrocarbons obtained by treatment of Foot's oil with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists predominantly of branched chain hydrocarbons with carbon numbers predominantly in the range of C_{20} through C_{50} .)	649-176-00-6	300-226-2	93924-32-4	L
Gases (petroleum), C _{3,4} ; Petroleum gas (A complex combination of hydrocarbons produced by distillation of products from the cracking of crude oil. It consists of hydrocarbons having carbon numbers in the range of C ₃ through C ₄ , predominantly of propane and propylene, and boiling in the range of approximately -51 °C to -1 °C (-60 °F to 30 °F.))	649-177-00-1	268-629-5	68131-75-9	K
Tail gas (petroleum), catalytic cracked distillate and catalytic cracked naphtha fractionation absorber; Petroleum gas (The complex combination of hydrocarbons from the distillation of the products from catalytic cracked distillates and catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₁ through C ₄ .)	649-178-00-7	269-617-2	68307-98-2	K

Substances	Index number	EC number	CAS number	Notes
Tail gas (petroleum), catalytic polymn. naphtha fractionation stabilizer; Petroleum gas (A complex combination of hydrocarbons from the fractionation stabilization products from polymerization of naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C_1 through C_4 .)	649-179-00-2	269-618-8	68307-99-3	K
Tail gas (petroleum), catalytic reformed naphtha fractionation stabilizer, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation stabilization of catalytic reformed naphtha and from which hydrogen sulphide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_4 .)	649-180-00-8	269-619-3	68308-00-9	K
Tail gas (petroleum), cracked distillate hydrotreater stripper; Petroleum gas (A complex combination of hydrocarbons obtained by treating thermal cracked distillates with hydrogen in the presence of a catalyst. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)	649-181-00-3	269-620-9	68308-01-0	K
Tail gas (petroleum), straight-run distillate hydrodesulphurizer, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons obtained from catalytic hydrodesulphurization of straight run distillates and from which hydrogen sulphide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)	649-182-00-9	269-630-3	68308-10-1	K
Tail gas (petroleum), gas oil catalytic cracking absorber; Petroleum gas (A complex combination of hydrocarbons obtained from the distillation of products from the catalytic cracking of gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-183-00-4	269-623-5	68308-03-2	K
Tail gas (petroleum), gas recovery plant; Petroleum gas (A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5 .)	649-184-00-X	269-624-0	68308-04-3	K
Tail gas (petroleum), gas recovery plant deethanizer; Petroleum gas (A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists of hydrocarbon having carbon numbers predominantly in the range of C ₁ through C ₄ .)	649-185-00-5	269-625-6	68308-05-4	K

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Substances	Index number	EC number	CAS number	Notes
Tail gas (petroleum), hydrodesulphurized distillate and hydrodesulphurized naphtha fractionator, acid-free; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation of hydrodesulphurized naphtha and distillate hydrocarbon streams and treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5 .)	649-186-00-0	269-626-1	68308-06-5	K
Tail gas (petroleum), hydrodesulphurized vacuum gas oil stripper, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons obtained from stripping stabilization of catalytic hydrodesulphurized vacuum gas oil and from which hydrogen sulphide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_6 .)	649-187-00-6	269-627-7	68308-07-6	К
Tail gas (petroleum), light straight-run naphtha stabilizer, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation stabilization of light straight-run naphtha and from which hydrogen sulphide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5 .)	649-188-00-1	269-629-8	68308-09-8	K
Tail gas (petroleum), propane-propylene alkylation feed prep deethanizer; Petroleum gas (A complex combination of hydrocarbons obtained from the distillation of the reaction products of propane with propylene. It consists of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_4 .)	649-189-00-7	269-631-9	68308-11-2	K
Tail gas (petroleum), vacuum gas oil hydrodesulphurizer, hydrogen sulphidefree; Petroleum gas (A complex combination of hydrocarbons obtained from catalytic hydrodesulphurization of vacuum gas oil and from which hydrogen sulphide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of $\rm C_1$ through $\rm C_6$.)	649-190-00-2	269-632-4	68308-12-3	K
Gases (petroleum), catalytic cracked overheads; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of products from the catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₅ and boiling in the range of approximately –48 °C to 32 °C (–54 °F to 90 °F).)	649-191-00-8	270-071-2	68409-99-4	K
Alkanes, C ₁₋₂ ; Petroleum gas	649-193-00-9	270-651-5	68475-57-0	K

Substances	Index number	EC number	CAS number	Note
Alkanes, C _{2.3} ; Petroleum gas	649-194-00-4	270-652-0	68475-58-1	K
Alkanes, C _{3.4} ; Petroleum gas	649-195-00-X	270-653-6	68475-59-2	K
Alkanes, C ₄₋₅ ; Petroleum gas	649-196-00-5	270-654-1	68475-60-5	K
Fuel gases; Petroleum gas (A combination of light gases. It consists predominantly of hydrogen and/or low molecular weight hydrocarbons.)	649-197-00-0	270-667-2	68476-26-6	K
Fuel gases, crude oil of distillates; Petroleum gas (A complex combination of light gases produced by distillation of crude oil and by catalytic reforming of naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ and boiling in the range of approximately – 217 °C to – 12 °C (–423 °F to 10 °F).)	649-198-00-6	270-670-9	68476-29-9	K
Hydrocarbons, C ₃₋₄ ; Petroleum gas	649-199-00-1	270-681-9	68476-40-4	K
Hydrocarbons, C _{4.5} ; Petroleum gas	649-200-00-5	270-682-4	68476-42-6	K
Hydrocarbons, C ₂₋₄ , C ₃ -rich; Petroleum gas	649-201-00-0	270-689-2	68476-49-3	K
Petroleum gases, liquefied; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₇ and boiling in the range of approximately –40 °C to 80 °C (–40 °F to 176 °F).)	649-202-00-6	270-704-2	68476-85-7	K
Petroleum gases, liquefied, sweetened; Petroleum gas (A complex combination of hydrocarbons obtained by subjecting liquefied petroleum gas mix to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C_3 through C_7 and boiling in the range of approximately $-40~^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ ($-40~^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$).)	649-203-00-1	270-705-8	68476-86-8	K
Gases (petroleum), C ₃₋₄ , isobutane-rich; Petroleum gas (A complex combination of hydrocarbons from the distillation of saturated and unsaturated hydrocarbons usually ranging in carbon numbers from C ₃ through C ₆ , predominantly butane and isobutane. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C ₃ through C ₄ , predominantly isobutane.)	649-204-00-7	270-724-1	68477-33-8	K

Substances	Index number	EC number	CAS number	Note
Distillates (petroleum), C_{3-6} , piperylenerich; Petroleum gas (A complex combination of hydrocarbons from the distillation of saturated and unsaturated aliphatic hydrocarbons usually ranging in the carbon numbers C_3 through C_6 . It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C_3 through C_6 , predominantly piperylenes.)	649-205-00-2	270-726-2	68477-35-0	K
Gases (petroleum), butane splitter overheads; Petroleum gas (A complex combination of hydrocarbons obtained from the distillation of the butane stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of $\mathrm{C_3}$ through $\mathrm{C_4}$.)	649-206-00-8	270-750-3	68477-69-0	K
Gases (petroleum), C ₂₋₃ ; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of products from a catalytic fractionation process. It contains predominantly ethane, ethylene, propane, and propylene.)	649-207-00-3	270-751-9	68477-70-3	K
Gases (petroleum), catalytic-cracked gas oil depropanizer bottoms, C_4 -rich acidfree; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation of catalytic cracked gas oil hydrocarbon stream and treated to remove hydrogen sulphide and other acidic components. It consists of hydrocarbons having carbon numbers in the range of C_3 through C_5 , predominantly C_4 .)	649-208-00-9	270-752-4	68477-71-4	K
Gases (petroleum), catalytic-cracked naphtha debutanizer bottoms, C ₃₋₅ -rich; Petroleum gas (A complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₅ .)	649-209-00-4	270-754-5	68477-72-5	K
Tail gas (petroleum), isomerized naphtha fractionation stabilizer; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilization products from isomerized naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of $\mathbf{C_1}$ through $\mathbf{C_4}$.)	649-210-00-X	269-628-2	68308-08-7	K
Foots oil (petroleum), carbon-treated; Foot's oil (A complex combination of hydrocarbons obtained by the treatment of Foot's oil with activated carbon for the removal of trace constituents and impurities. It consists predominantly of saturated straight chain hydrocarbons having carbon numbers predominantly greater than C ₁₂ .)	649-211-00-5	308-126-0	97862-76-5	L

Substances	Index number	EC number	CAS number	Note
Distillates (petroleum), sweetened middle; Gas oil — unspecified (A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₉ through C ₂₀ and boiling in the range of approximately 150 °C to 345 °C (302 °F to 653 °F).)	649-212-00-0	265-088-7	64741-86-2	N
Gas oils (petroleum), solvent-refined; Gas oil — unspecified (A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁₁ through C ₂₅ and boiling in the range of approximately 205 °C to 400 °C (401 °F to 752 °F).)	649-213-00-6	265-092-9	64741-90-8	N
Distillates (petroleum), solvent-refined middle; Gas oil — unspecified (A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₉ through C ₂₀ and boiling in the range of approximately 150 °C to 345 °C (302 °F to 653 °F).)	649-214-00-1	265-093-4	64741-91-9	N
Gas oils (petroleum), acid-treated; Gas oil — unspecified (A complex combination of hydrocarbons obtained as a raffinate from a sulphuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₃ through C ₂₅ and boiling in the range of approximately 230 °C to 400 °C (446 °F to 752 °F).)	649-215-00-7	265-112-6	64742-12-7	N
Distillates (petroleum), acid-treated middle; Gas oil — unspecified (A complex combination of hydrocarbons obtained as a raffinate from a sulphuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₁ through C ₂₀ and boiling in the range of approximately 205 °C to 345 °C (401 °F to 653 °F).)	649-216-00-2	265-113-1	64742-13-8	N
Distillates (petroleum), acid-treated light; Gas oil — unspecified (A complex combination of hydrocarbons obtained as a raffinate from a sulphuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₉ through C ₁₆ and boiling in the range of approximately 150 °C to 290 °C (302 °F to 554 °F).)	649-217-00-8	265-114-7	64742-14-9	N

Substances	Index number	EC number	CAS number	Note
Gas oils (petroleum), chemically neutralized; Gas oil — unspecified (A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₃ through C ₂₅ and boiling in the range of approximately 230 °C to 400 °C (446 °F to 752 °F.)	649-218-00-3	265-129-9	64742-29-6	N
Distillates (petroleum), chemically neutralized middle; Gas oil — unspecified (A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{11} through C_{20} and boiling in the range of approximately 205 °C to 345 °C (401 °F to 653 °F).)	649-219-00-9	265-130-4	64742-30-9	N
Distillates (petroleum), clay-treated middle; Gas oil — unspecified (A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₉ through C ₂₀ and boiling in the range of approximately 150 °C to 345 °C (302 °F to 653 °F).)	649-220-00-4	265-139-3	64742-38-7	N
Distillates (petroleum), hydrotreated middle; Gas oil — unspecified (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₁ through C ₂₅ and boiling in the range of approximately 205 °C to 400 °C (401 °F to 752 °F).)	649-221-00-X	265-148-2	64742-46-7	N
Gas oils (petroleum), hydrodesuphurized; Gas oil — unspecified (A complex combination of hydrocarbons obtained from a petroleum stock by treating with hydrogen to convert organic sulphur to hydrogen sulphide which is removed. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₃ through C ₂₅ and boiling in the range of approximately 230 °C to 400 °C (446 °F to 752 °F.)	649-222-00-5	265-182-8	64742-79-6	N
Distillates (petroleum), hydrodesulphurized middle; Gas oil — unspecified (A complex combination of hydrocarbons obtained from a petroleum stock by treating with hydrogen to convert organic sulphur to hydrogen sulphide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₁ through C ₂₅ and boiling in the range of approximately 205 °C to 400 °C (401 °F to 752 °F).)	649-223-00-0	265-183-3	64742-80-9	N

Substances	Index number	EC number	CAS number	Notes
Distillates (petroleum), catalytic reformer fractionator residue, highboiling; Gas oil — unspecified (A complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils in the range of approximately 343 °C to 399 °C (650 °F to 750 °F).)	649-228-00-8	270-719-4	68477-29-2	N
Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling; Gas oil — unspecified (A complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils in the range of approximately 288 °C to 371 °C (550 °F to 700 °F).)	649-229-00-3	270-721-5	68477-30-5	N
Distillates (petroleum), catalytic reformer fractionator residue, low-boiling; Gas oil — unspecified (The complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils approximately below 288 °C (550 °F).)	649-230-00-9	270-722-0	68477-31-6	N
Distillates (petroleum), highly refined middle; Gas oil — unspecified (A complex combination of hydrocarbons obtained by the subjection of a petroleum fraction to several of the following steps: filtration, centrifugation, atmospheric distillation, vacuum distillation, acidification, neutralization and clay treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_{10} through C_{20} .)	649-231-00-4	292-615-8	90640-93-0	N
Distillates (petroleum) catalytic reformer, heavy arom. conc.; Gas oil—unspecified (A complex combination of hydrocarbons obtained from the distillation of a catalytically reformed petroleum cut. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₁₀ through C ₁₆ and boiling in the range of approximately 200 °C to 300 °C (392 °F to 572 °F).)	649-232-00-X	295-294-2	91995-34-5	N
Gas oils, paraffinic; Gas oil — unspecified (A distillate obtained from the redistillation of a complex combination of hydrocarbons obtained by the distillation of the effluents from a severe catalytic hydrotreatment of paraffins. It boils in the range of approximately 190 °C to 330 °C (374 °F to 594 °F).)	649-233-00-5	300-227-8	93924-33-5	N
Naphtha (petroleum), solvent-refined hydrodesulphurized heavy; Gas oil — unspecified	649-234-00-0	307-035-3	97488-96-5	N

Substances	Index number	EC number	CAS number	Note
Hydrocarbons, C ₁₆₋₂₀ , hydrotreated middle distillate, distn. lights; Gas oil — unspecified (A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the treatment of a middle distillate with hydrogen. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₆ through C ₂₀ and boiling in the range of approximately 290 °C to 350 °C (554 °F to 662 °F). It produces a finished oil having a viscosity of 2 cSt at 100 °C (212 °F).)	649-235-00-6	307-659-6	97675-85-9	N
Hydrocarbons, C ₁₂₋₂₀ , hydrotreated paraffinic, distn. lights; Gas oil — unspecified (A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the treatment of heavy paraffins with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₂ through C ₂₀ and boiling in the range of approximately 230 °C to 350 °C (446 °F to 662 °F). It produces a finished oil having a viscosity of 2 cSt at 100 °C (212 °F).)	649-236-00-1	307-660-1	97675-86-0	N
Hydrocarbons, C ₁₁₋₁₇ , solvent-extd. light naphthenic; Gas oil — unspecified (A complex combination of hydrocarbons obtained by extraction of the aromatics from a light naphthenic distillate having a viscosity of 2.2 cSt at 40 °C (104 °F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₁ through C ₁₇ and boiling in the range of approximately 200 °C to 300 °C (392 °F to 572 °F).)	649-237-00-7	307-757-9	97722-08-2	N
Gas oils, hydrotreated; Gas oil — unspecified (A complex combination of hydrocarbons obtained from the redistillation of the effluents from the treatment of paraffins with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_{17} through C_{27} and boiling in the range of approximately 330 °C to 340 °C (626 °F to 644 °F).)	649-238-00-2	308-128-1	97862-78-7	N
Distillates (petroleum), carbon-treated light paraffinic; Gas oil — unspecified (A complex combination of hydrocarbons obtained by the treatment of a petroleum oil fraction with activated charcoal for the removal of traces of polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₂ through C ₂₈ .)	649-239-00-8	309-667-5	100683-97-4	N

Substances	Index number	EC number	CAS number	Note
Distillates (petroleum), intermediate paraffinic, carbon-treated; Gas oil — unspecified (A complex combination of hydrocarbons obtained by the treatment of petroleum with activated charcoal for the removal of trace polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_{16} through C_{36} .)	649-240-00-3	309-668-0	100683-98-5	N
Distillates (petroleum), intermediate paraffinic, clay-treated; Gas oil — unspecified (A complex combination of hydrocarbons obtained by the treatment of petroleum with bleaching earth for the removal of trace polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of $\rm C_{16}$ through $\rm C_{36}$.)	649-241-00-9	309-669-6	100683-99-6	N
Alkanes, C ₁₂₋₂₆ -branched and linear;	649-242-00-4	292-454-3	90622-53-0	N
Lubricating greases; Grease (A complex combination of hydrocarbons having carbon numbers predominantly in the range of C_{12} through C_{50} . May contain organic salts of alkali metals, alkaline earth metals, and/or aluminium compounds.)	649-243-00-X	278-011-7	74869-21-9	N
Slack wax (petroleum); Slack wax (A complex combination of hydrocarbons obtained from a petroleum fraction by solvent crystallization (solvent dewaxing) or as a distillation fraction from a very waxy crude. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C ₂₀ .)	649-244-00-5	265-165-5	64742-61-6	N
Slack wax (petroleum), acid-treated; Slack wax (A complex combination of hydrocarbons obtained as a raffinate by treatment of a petroleum slack wax fraction with sulphuric acid treating process. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than $\rm C_{20}$.)	649-245-00-0	292-659-8	90669-77-5	N
Slack wax (petroleum), clay-treated; Slack wax (A complex combination of hydrocarbons obtained by treatment of a petroleum slack wax fraction with natural or modified clay in either a contacting or percolation process. It consists predominantly of saturated straight and branched hydrocarbons having carbon numbers predominantly greater than C ₂₀ .)	649-246-00-6	292-660-3	90669-78-6	N

Substances	Index number	EC number	CAS number	Note
Slack wax (petroleum), hydrotreated; Slack wax (A complex combination of hydrocarbons obtained by treating slack wax with hydrogen in the presence of a catalyst. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than $\rm C_{20}$.)	649-247-00-1	295-523-6	92062-09-4	N
Slack wax (petroleum), low-melting; Slack wax (A complex combination of hydrocarbons obtained from a petroleum fraction by solvent deparaffination. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than $\rm C_{12}$.)	649-248-00-7	295-524-1	92062-10-7	N
Slack wax (petroleum), low-melting, hydrotreated; Slack wax (A complex combination of hydrocarbons obtained by treatment of low-melting petroleum slack wax with hydrogen in the presence of a catalyst. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C ₁₂ .)	649-249-00-2	295-525-7	92062-11-8	N
Slack wax (petroleum), low-melting, carbon-treated; Slack wax (A complex combination of hydrocarbons obtained by the treatment of low-melting slack wax with activated carbon for the removal of trace polar constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C_{12} .)	649-250-00-8	308-155-9	97863-04-2	N
Slack wax (petroleum), low-melting, clay-treated; Slack wax (A complex combination of hydrocarbons obtained by the treatment of low-melting petroleum slack wax with bentonite for removal of trace polar constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C_{12} .)	649-251-00-3	308-156-4	97863-05-3	N
Slack wax (petroleum), low-melting, silicic acid-treated; Slack wax (A complex combination of hydrocarbons obtained by the treatment of low-melting petroleum slack wax with silicic acid for the removal of trace polar constituents and impurities. It consists predominantly of saturated straight and branched chain hydrocarbons having carbon numbers predominantly greater than C ₁₂ .)	649-252-00-9	308-158-5	97863-06-4	N

Substances	Index number	EC number	CAS number	Note
Slack wax (petroleum), carbon-treated; Slack wax (A complex combination of hydrocar- bons obtained by treatment of petroleum slack wax with activated charcoal for the removal of trace polar constituents and impurities.)	649-253-00-4	309-723-9	100684-49-9	N
Petrolatum; Petrolatum (A complex combination of hydrocarbons obtained as a semi-solid from dewaxing paraffinic residual oil. It consists predominantly of saturated crystalline and liquid hydrocarbons having carbon numbers predominantly greater than \mathbf{C}_{25} .)	649-254-00-X	232-373-2	8009-03-8	N
Petrolatum (petroleum), oxidized; Petrolatum (A complex combination of organic compounds, predominantly high molecular weight carboxylic acids, obtained by the air oxidation of petrolatum.)	649-255-00-5	265-206-7	64743-01-7	N
Petrolatum (petroleum), alumina-treated; Petrolatum (A complex combination of hydrocarbons obtained when petrolatum is treated with Al ₂ O ₃ to remove polar components and impurities. It consists predominantly of saturated, crystalline, and liquid hydrocarbons having carbon numbers predominantly greater than C ₂₅ .)	649-256-00-0	285-098-5	85029-74-9	N
Petrolatum (petroleum), hydrotreated; Petrolatum (A complex combination of hydrocarbons obtained as a semi-solid from dewaxed paraffinic residual oil treated with hydrogen in the presence of a catalyst. It consists predominantly of saturated, microcrystalline, and liquid hydrocarbons having carbon numbers predominantly greater than \mathbf{C}_{20} .)	649-257-00-6	295-459-9	92045-77-7	N
Petrolatum (petroleum), carbon-treated; Petrolatum (A complex combination of hydrocarbons obtained by the treatment of petroleum petrolatum with activated carbon for the removal of trace polar consituents and impurities. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly greater than C_{20} .)	649-258-00-1	308-149-6	97862-97-0	N
Petrolatum (petroleum), silicic acid- treated; Petrolatum (A complex combination of hydrocar- bons obtained by the treatment of petroleum petrolatum with silicic acid for the removal of trace polar constitu- ents and impurities. It consists predomi- nantly of saturated hydrocarbons having carbon numbers predominantly greater than C ₂₀ .)	649-259-00-7	308-150-1	97862-98-1	N

Substances	Index number	EC number	CAS number	Note
Petrolatum (petroleum), clay-treated; Petrolatum (A complex combination of hydrocarbons obtained by treatment of petrolatum with bleaching earth for the removal of traces of polar constituents and impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of greater than $\rm C_{25}$.)	649-260-00-2	309-706-6	100684-33-1	N
Gasoline, natural; Low boiling point naphtha (A complex combination of hydrocarbons separated from natural gas by processes such as refrigeration or absorption. It consists predominantly of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₈ and boiling in the range of approximately -20 °C to 120 °C (-4 °F to 248 °F).)	649-261-00-8	232-349-1	8006-61-9	P
Naphtha; Low boiling point naphtha (Refined, partly refined, or unrefined petroleum products by the distillation of natural gas. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₆ and boiling in the range of approximately 100 °C to 200 °C (212 °F to 392 °F).)	649-262-00-3	232-443-2	8030-30-6	P
Ligroine; Low boiling point naphtha (A complex combination of hydrocarbons obtained by the fractional distillation of petroleum. This fraction boils in a range of approximately 20 °C to 135 °C (58 °F to 275 °F).)	649-263-00-9	232-453-7	8032-32-4	P
Naphtha (petroleum), heavy straight-run; Low boiling point naphtha (A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ and boiling in the range of approximately 65 °C to 230 °C (149 °F to 446 °F).)	649-264-00-4	265-041-0	64741-41-9	P
Naphtha (petroleum), full-range straight- run; Low boiling point naphtha (A complex combination of hydrocar- bons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately -20 °C to 220 °C (-4 °F to 428 °F).)	649-265-00-X	265-042-6	64741-42-0	P
Naphtha (petroleum), light straight-run; Low boiling point naphtha (A complex combination of hydrocarbons produced by distillation of crude oil. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₀ and boiling in the range of approximately -20 °C to 180 °C (-4 °F to 356 °F).)	649-266-00-5	265-046-8	64741-46-4	P

Substances	Index number	EC number	CAS number	Note
Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha (A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₀ and boiling in the range of approximately 35 °C to 160 °C (95 °F to 320 °F).)	649-267-00-0	265-192-2	64742-89-8	P
Distillates (petroleum), straight-run light; Low boiling point naphtha (A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₂ and boiling in the range of approximately –88 °C to 99 °C (–127 °F to 210 °F).)	649-268-00-6	270-077-5	68410-05-9	P
Gasoline, vapour-recovery; Low boiling point naphtha (A complex combination of hydrocarbons separated from the gases from vapour recovery systems by cooling. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately -20 °C to 196 °C (-4 °F to 384 °F).)	649-269-00-1	271-025-4	68514-15-8	P
Gasoline, straight-run, topping-plant; Low boiling point naphtha (A complex combination of hydrocar- bons produced from the topping plant by the distillation of crude oil. It boils in the range of approximately 36,1 °C to 193,3 °C (97 °F to 380 °F).)	649-270-00-7	271-727-0	68606-11-1	Р
Naphtha (petroleum), unsweetened; Low boiling point naphtha (A complex combination of hydrocarbons produced from the distillation of naphtha streams from various refinery processes. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₂ and boiling in the range of approximately 0 °C to 230 °C (25 °F to 446 °F).)	649-271-00-2	272-186-3	68783-12-0	P
Distillates (petroleum), light straight-run gasoline fractionation stabilizer overheads; Low boiling point naphtha (A complex combination of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₆ .)	649-272-00-8	272-931-2	68921-08-4	P
Naphtha (petroleum), heavy straight run, aromcontg.; Low boiling point naphtha (A complex combination of hydrocarbons obtained from a distillation process of crude petroleum. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₈ through C ₁₂ and boiling in the range of approximately 130 °C to 210 °C (266 °F to 410 °F).)	649-273-00-3	309-945-6	101631-20-3	P

Substances	Index number	EC number	CAS number	Note
Naphtha (petroleum), full-range alkylate; Low boiling point modified naphtha (A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C ₃ through C ₅ . It consists of predominantly branched chain saturated hydro-carbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 90 °C to 220 °C (194 °F to 428 °F).)	649-274-00-9	265-066-7	64741-64-6	P
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha (A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C ₃ to C ₅ . It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C ₉ through C ₁₂ and boiling in the range of approximately 150 °C to 220 °C (302 °F to 428 °F).)	649-275-00-4	265-067-2	64741-65-7	Р
Naphtha (petroleum), light alkylate; Low boiling point modified naphtha (A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C ₃ through C ₅ . It consists of predominantly branched chain saturated hydro-carbons having carbon numbers predominantly in the range of C ₇ through C ₁₀ and boiling in the range of approximately 90 °C to 160 °C (194 °F to 320 °F).)	649-276-00-X	265-068-8	64741-66-8	P
Naphtha (petroleum), isomerization; Low boiling point modified naphtha (A complex combination of hydrocar- bons obtained from catalytic isomeriza- tion of straight chain paraffinic C ₄ through C ₆ hydrocarbons. It consists predominantly of saturated hydrocar- bons such as isobutane, isopentane, 2,2-dimethylbutane, 2-methylpentane, and 3-methylpentane.)	649-277-00-5	265-073-5	64741-70-4	P
Naphtha (petroleum), solvent-refined light; Low boiling point modified naphtha (A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₁ and boiling in the range of approximately 35 °C to 190 °C (95 °F to 374 °F).)	649-278-00-0	265-086-6	64741-84-0	P

Substances	Index number	EC number	CAS number	Notes
Naphtha (petroleum), solvent-refined heavy; Low boiling point modified naphtha (A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 90 °C to 230 °C (194 °F to 446 °F).)	649-279-00-6	265-095-5	64741-92-0	P
Raffinates (petroleum), catalytic reformer ethylene glycol-water countercurrent exts.; Low boiling point modified naphtha (A complex combination of hydrocarbons obtained as the raffinate from the UDEX extraction process on the catalytic reformer stream. It consists of saturated hydrocarbons having carbon numbers predominantly in the range of C_6 through C_9 .)	649-280-00-1	270-088-5	68410-71-9	Р
Raffinates (petroleum), reformer, Lurgi unit-sepd.; Low boiling point modified naphtha (The complex combination of hydrocarbons obtained as a raffinate from a Lurgi separation unit. It consists predominantly of non-aromatic hydrocarbons with various small amounts of aromatic hydrocarbons having carbon numbers predominantly in the range of C_6 through C_8 .)	649-281-00-7	270-349-3	68425-35-4	P
Naphtha (petroleum), full-range alkylate, butane-contg.; Low boiling point modified naphtha (A complex combination of hydrocarbons produced by the distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C ₃ through C ₅ . It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ with some butanes and boiling in the range of approximately 35 °C to 200 °C (95 °F to 428 °F).)	649-282-00-2	271-267-0	68527-27-5	P
Distillates (petroleum), naphtha steam cracking-derived, solvent-refined light hydrotreated; Low boiling point modified naphtha (A complex combination of hydrocarbons obtained as the raffinates from a solvent extraction process of hydrotreated light distillate from steam-cracked naphtha.)	649-283-00-8	295-315-5	91995-53-8	P
Naphtha (petroleum), C ₄₋₁₂ butane-alky-late, isooctane-rich; Low boiling point modified naphtha (A complex combination of hydrocarbons obtained by alkylation of butanes. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₂ rich in isooctane, and boiling in the range of approximately 35 °C to 210 °C (95 °F to 410 °F).)	649-284-00-3	295-430-0	92045-49-3	P

Substances	Index number	EC number	CAS number	Note
Hydrocarbons, hydrotreated light naphtha distillates, solvent-refined; Low boiling point modified naphtha (A combination of hydrocarbons obtained from the distillation of hydrotreated naphtha followed by a solvent extraction and distillation process. It consists predominantly of saturated hydrocarbons boiling in the range of approximately 94 °C to 99 °C (201 °F to 210 °F.)	649-285-00-9	295-436-3	92045-55-1	P
Naphtha (petroleum), isomerization, C ₆ -fraction; Low boiling point modified naphtha (A complex combination of hydrocarbons obtained by distillation of a gasoline which has been catalytically isomerized. It consists predominantly of hexane isomers boiling in the range of approximately 60 °C to 66 °C (140 °F to 151 °F).)	649-286-00-4	295-440-5	92045-58-4	P
Hydrocarbons, C ₆₋₇ , naphtha-cracking, solvent-refined; Low boiling point modified naphtha (A complex combination of hydrocarbons obtained by the sorption of benzene from a catalytically fully hydrogenated benzene-rich hydrocarbon cut that was distillatively obtained from prehydrogenated cracked naphtha. It consists predominantly of paraffinic and naphthenic hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₇ and boiling in the range of approximately 70 °C to 100 °C (158 °F to 212 °F).)	649-287-00-X	295-446-8	92045-64-2	P
Hydrocarbons, C ₅ -rich, hydrotreated light naphtha distillates, solvent-refined; Low boiling point modified naphtha (A complex combination of hydrocarbons obtained by distillation of hydrotreated naphtha followed by solvent extraction. It consists predominantly of saturated hydrocarbons and boiling in the range of approximately 65 °C to 70 °C (149 °F to 158 °F).)	649-288-00-5	309-871-4	101316-67-0	P
Naphtha (petroleum), heavy catalytic cracked; Low boiling point cat-cracked naphtha (A complex combination of hydrocarbons produced by a distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ and boiling in the range of approximately 65 °C to 230 °C (148 °F to 446 °F). It contains a relatively large proportion of unsaturated hydrocarbons.)	649-289-00-0	265-055-7	64741-54-4	P

Substances	Index number	EC number	CAS number	Note
Naphtha (petroleum), light catalytic cracked; Low boiling point cat-cracked naphtha (A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately – 20 °C to 190 °C (–4 °F to 374 °F). It contains a relatively large proportion of unsaturated hydrocarbons.)	649-290-00-6	265-056-2	64741-55-5	P
Hydrocarbons, C ₃₋₁₁ , catalytic cracker distillates; Low boiling point cat-cracked naphtha (A complex combination of hydrocarbons produced by the distillations of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₁₁ and boiling in a range approximately up to 204 °C (400 °F).)	649-291-00-1	270-686-6	68476-46-0	P
Naphtha (petroleum), catalytic cracked light distd.; Low boiling point cat-cracked naphtha (A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-292-00-7	272-185-8	68783-09-5	P
Distillates (petroleum), naphtha steam cracking-derived, hydrotreated light arom.; Low boiling point cat-cracked naphtha. (A complex combination of hydrocarbons obtained by treating a light distillate from steam-cracked naphtha. It consists predominantly of aromatic hydrocarbons.)	649-293-00-2	295-311-3	91995-50-5	P
Naphtha (petroleum), heavy catalytic cracked, sweetened; Low boiling point cat-cracked naphtha (A complex combination of hydrocarbons obtained by subjecting a catalytic cracked petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ and boiling in the range of approximately 60 °C to 200 °C (140 °F to 392 °F).)	649-294-00-8	295-431-6	92045-50-6	P
Naphtha (petroleum), light catalytic cracked sweetened; Low boiling point cat-cracked naphtha (A complex combination of hydrocarbons obtained by subjecting naphtha from a catalytic cracking process to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons boiling in a range of approximately 35 °C to 210 °C (95 °F to 410 °F).)	649-295-00-3	295-441-0	92045-59-5	P

Substances	Index number	EC number	CAS number	Note
Hydrocarbons, C ₈₋₁₂ , catalytic-cracking, chem. neutralized; Low boiling point cat-cracked naphtha (A complex combination of hydrocarbons produced by the distillation of a cut from the catalytic cracking process, having undergone an alkaline washing. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₈ through C ₁₂ and boiling in the range of approximately 130 °C to 210 °C (266 °F to 410 °F).)	649-296-00-9	295-794-0	92128-94-4	P
Hydrocarbons, C ₈₋₁₂ , catalytic cracker distillates; Low boiling point cat-cracked naphtha (A complex combination of hydrocarbons obtained by distillation of products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₈ through C ₁₂ and boiling in the range of approximately 140 °C to 210 °C (284 °F to 410 °F).)	649-297-00-4	309-974-4	101794-97-2	P
Hydrocarbons, C ₈₋₁₂ , catalytic cracking, chem. neutralized, sweetened; Low boiling point cat-cracked naphtha	649-298-00-X	309-987-5	101896-28-0	P
Naphtha (petroleum), light catalytic reformed; Low boiling point catreformed naphtha (A complex combination of hydrocarbons produced from the distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₁ and boiling in the range of approximately 35 °C to 190 °C (95 °F to 374 °F). It contains a relatively large proportion of aromatic and branched chain hydrocarbons. This stream may contain 10 vol. % or more benzene.)	649-299-00-5	265-065-1	64741-63-5	P
Naphtha (petroleum), heavy catalytic reformed; Low boiling point catreformed naphtha (A complex combination of hydrocarbons produced from the distillation of products from a catalytic reforming process. It consists of predominantly aromatic hydrocarbons having numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 90 °C to 230 °C (194 °F to 446 °F).)	649-300-00-9	265-070-9	64741-68-0	P
Distillates (petroleum), catalytic reformed depentanizer; Low boiling point cat-reformed naphtha (A complex combination of hydrocarbons from the distillation of products from a catalytic reforming process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₆ and boiling in the range of approximately –49 °C to 63 °C (–57 °F to 145 °F).)	649-301-00-4	270-660-4	68475-79-6	P

Substances	Index number	EC number	CAS number	Note
Hydrocarbons, $C_{2.6}$, $C_{6.8}$ catalytic reformer; Low boiling point catreformed naphtha	649-302-00-X	270-687-1	68476-47-1	Р
Residues (petroleum), $C_{6.8}$ catalytic reformer; Low boiling point catreformed naphtha (A complex residuum from the catalytic reforming of $C_{6.8}$ feed. It consists of hydrocarbons having carbon numbers predominantly in the range of C_2 through C_6 .)	649-303-00-5	270-794-3	68478-15-9	P
Naphtha (petroleum), light catalytic reformed, aromfree; Low boiling point cat-reformed naphtha (A complex combination of hydrocarbons obtained from distillation of products from a catalytic reforming process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₈ and boiling in the range of approximately 35 °C to 120 °C (95 °F to 248 °F). It contains a relatively large proportion of branched chain hydrocarbons with the aromatic components removed.)	649-304-00-0	270-993-5	68513-03-1	P
Distillates (petroleum), catalytic reformed straight-run naphtha overheads; Low boiling point cat-reformed naphtha (A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha followed by the fractionation of the total effluent. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ throughC ₆ .)	649-305-00-6	271-008-1	68513-63-3	P
Petroleum products, hydrofiner-power-former reformates; Low boiling point cat-reformed naphtha (The complex combination of hydrocarbons obtained in a hydrofiner-power-former process and boiling in a range of approximately 27 °C to 210 °C (80 °F to 410 °F).)	649-306-00-1	271-058-4	68514-79-4	P
Naphtha (petroleum, full-range reformed; Low boiling point catreformed naphtha (A complex combination of hydrocarbons produced by the distillation of the products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₂ and boiling in the range of approximately 35 °C to 230 °C (95 °F to 446 °F).)	649-307-00-7	272-895-8	68919-37-9	P

Substances	Index number	EC number	CAS number	Note
Naphtha (petroleum), catalytic reformed; Low boiling point catreformed naphtha (A complex combination of hydrocarbons produced by the distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₂ and boiling in the range of approximately 30 °C to 220 °C (90 °F to 430 °F). It contains a relatively large proportion of aromatic and branched chain hydrocarbons. This stream may contain 10 vol. % or more benzene.)	649-308-00-2	273-271-8	68955-35-1	P
Distillates (petroleum), catalytic reformed hydrotreated light, C_{8-12} arom. fraction; Low boiling point cat-reformed naphtha (A complex combination of alkylbenzenes obtained by the catalytic reforming of petroleum naphtha. It consists predominantly of alkylbenzenes having carbon numbers predominantly in the range of C_8 through C_{10} and boiling in the range of approximately $160~^{\circ}\text{C}$ to $180~^{\circ}\text{C}$ ($320~^{\circ}\text{F}$ to $356~^{\circ}\text{F}$).)	649-309-00-8	285-509-8	85116-58-1	P
Aromatic hydrocarbons, C_8 , catalytic reforming-derived; Low boiling point cat-reformed naphtha	649-310-00-3	295-279-0	91995-18-5	P
Aromatic hydrocarbons, C_{7-12} , C_8 -rich; Low boiling point cat-reformed naphtha (A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C_7 through C_{12} (primarily C_8) and can contain nonaromatic hydrocarbons, both boiling in the range of approximately 130 °C to 200 °C (266 °F to 392 °F).)	649-311-00-9	297-401-8	93571-75-6	P
Gasoline, C ₅₋₁₁ , high-octane stabilized reformed; Low boiling point catreformed naphtha (A complex high octane combination of hydrocarbons obtained by the catalytic dehydrogenation of a predominantly naphthenic naphtha. It consists predominantly of aromatics and non-aromatics having carbon numbers predominantly in the range of C ₅ through C ₁₁ and boiling in the range of approximately 45 °C to 185 °C (113 °F to 365 °F).)	649-312-00-4	297-458-9	93572-29-3	P
Hydrocarbons, C_{7-12} , C_9 -aromrich, reforming heavy fraction; Low boiling point cat-reformed naphtha (A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of nonaromatic hydrocarbons having carbon numbers predominantly in the range of C_7 through C_{12} and boiling in the range of approximately 120 °C to 210 °C (248 °F to 380 °F) and C_9 and higher aromatic hydrocarbons.)	649-313-00-X	297-465-7	93572-35-1	P

Substances	Index number	EC number	CAS number	Note
Hydrocarbons, C ₅₋₁₁ , nonaromsrich, reforming light fraction; Low boiling point cat-reformed naphtha (A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of nonaromatic hydrocarbons having carbon numbers predominantly in the range of C ₅ to C ₁₁ and boiling in the range of approximately 35 °C to 125 °C (94 °F to 257 °F), benzene and toluene.)	649-314-00-5	297-466-2	93572-36-2	P
Foots oil (petroleum), silicic acid-treated; Foots oil (A complex combination of hydrocarbons obtained by the treatment of Foots oil with silicic acid for removal of trace constituents and impurities. It consists predominantly of straight chain hydrocarbons having carbon numbers predominantly greater than C ₁₂ .)	649-315-00-0	308-127-6	97862-77-6	L
Naphtha (petroleum), light thermal cracked; Low boiling point thermally cracked naphtha (A complex combination of hydrocarbons from distillation of products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₈ and boiling in the range of approximately – 10 °C to 130 °C (14 °F to 266 °F).)	649-316-00-6	265-075-6	64741-74-8	P
Naphtha (petroleum), heavy thermal cracked; Low boiling point thermally cracked naphtha (A complex combination of hydrocarbons from distillation of products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ and boiling in the range of approximately 65 °C to 220 °C (148 °F to 428 °F).)	649-317-00-1	265-085-0	64741-83-9	P
Distillates (petroleum), heavy arom.; Low boiling point thermally cracked naphtha (The complex combination of hydrocarbons from the distillation of products from the thermal cracking of ethane and propane. This higher boiling fraction consists predominantly of C_s - C_γ aromatic hydrocarbons with some unsaturated aliphatic hydrocarbons having a carbon number predominantly of C_s -This stream may contain benzene.)	649-318-00-7	267-563-4	67891-79-6	P
Distillates (petroleum), light arom.; Low boiling point thermally cracked naphtha (The complex combination of hydrocarbons from the distillation of products from the thermal cracking of ethane and propane. This lower boiling fraction consists predominantly of C_s - C_7 aromatic hydrocarbons with some unsaturated aliphatic hydrocarbons having a carbon number predominantly of C_s . This stream may contain benzene.)	649-319-00-2	267-565-5	67891-80-9	P

Substances	Index number	EC number	CAS number	Note
Distillates (petroleum), naphtha-raffinate pyrolyzate-derived, gasoline-blending; Low boiling point thermally cracked naphtha (The complex combination of hydrocarbons obtained by the pyrolysis fractionation at 816 °C (1500 °F) of naphtha and raffinate. It consists predominantly of hydrocarbons having a carbon number of C ₉ and boiling at approximately 204 °C (400 °F).)	649-320-00-8	270-344-6	68425-29-6	P
Aromatic hydrocarbons, C_{6-8} , naphtharaffinate pyrolyzate-derived; Low boiling point thermally cracked naphtha (A complex combination of hydrocarbons obtained by the fractionation pyrolysis at 816 °C (1500 °F) of naphtha and raffinate. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C_6 through C_8 , including benzene.)	649-321-00-3	270-658-3	68475-70-7	P
Distillates (petroleum), thermal cracked naphtha and gas oil; Low boiling point thermally cracked naphtha (A complex combination of hydrocarbons produced by distillation of thermally cracked naphtha and/or gas oil. It consists predominantly of olefinic hydrocarbons having a carbon number of C_5 and boiling in the range of approximately 33 °C to 60 °C (91 °F to 140 °F).)	649-322-00-9	271-631-9	68603-00-9	P
Distillates (petroleum), thermal cracked naphtha and gas oil, C_5 -dimer-contg.; Low boiling point thermally cracked naphtha (A complex combination of hydrocarbons produced by the extractive distillation of thermal cracked naphtha and/or gas oil. It consists predominantly of hydrocarbons having a carbon number of C_5 with some dimerized C_5 olefins and boiling in the range of approximately 33 °C to 184 °C (91 °F to 363 °F).)	649-323-00-4	271-632-4	68603-01-0	P
Distillates (petroleum), thermal cracked naphtha and gas oil, extractive; Low boiling point thermally cracked naphtha (A complex combination of hydrocarbons produced by the extractive distillation of thermal cracked naphtha and/or gas oil. It consists of paraffinic and olefinic hydrocarbons predominantly isoamylenes such as 2-methyl-1-butene and 2-methyl-2-butene and boiling in the range of approximately 31 °C to 40 °C (88 °F to 104 °F).)	649-324-00-X	271-634-5	68603-03-2	P
Distillates (petroleum), light thermal cracked, debutanized arom.; Low boiling point thermally cracked naphtha (A complex combination of hydrocarbons produced by the distillation of products from a thermal cracking process. It consists predominantly of aromatic hydrocarbons, primarily benzene.)	649-325-00-5	273-266-0	68955-29-3	P

Substances	Index number	EC number	CAS number	Not
Naphtha (petroleum), light thermal cracked, sweetened; Low boiling point thermally cracked naphtha (A complex combination of hydrocarbons obtained by subjecting a petroleum distillate from the high temperature thermal cracking of heavy oil fractions to a sweetening process to convert mercaptans. It consists predominantly of aromatics, olefins and saturated hydrocarbons boiling in the range of approximately 20 °C to 100 °C (68 °F to 212 °F).)	649-326-00-0	295-447-3	92045-65-3	Р
Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₃ and boiling in the range of approximately 65 °C to 230 °C (149 °F to 446 °F).)	649-327-00-6	265-150-3	64742-48-9	Р
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately – 20 °C to 190 °C (–4 °F to 374 °F).)	649-328-00-1	265-151-9	64742-49-0	Р
Naphtha (petroleum), hydrodesulphurized light; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained from a catalytic hydrodesulphurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately –20 °C to 190 °C (–4 °F to 374 °F).)	649-329-00-7	265-178-6	64742-73-0	Р
Naphtha (petroleum), hydrodesulphurized heavy; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained from a catalytic hydrodesulphurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 90 °C to 230 °C (194 °F to 446 °F).)	649-330-00-2	265-185-4	64742-82-1	P

Substances	Index number	EC number	CAS number	Note
Distillates (petroleum), hydrotreated middle, intermediate boiling; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained by the distillation of products from a middle distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C_5 through C_{10} and boiling in the range of approximately 127 °C to 188 °C (262 °F to 370 °F).)	649-331-00-8	270-092-7	68410-96-8	P
Distillates (petroleum), light distillate hydrotreating process, low-boiling; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained by the distillation of products from the light distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₉ and boiling in the range of approximately 3 °C to 194 °C (37 °F to 382 °F).)	649-332-00-3	270-093-2	68410-97-9	P
Distillates (petroleum), hydrotreated heavy naphtha, deisohexanizer overheads; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained by distillation of the products from a heavy naphtha hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₆ and boiling in the range of approximately –49 °C to 68 °C (–57 °F to 155 °F).)	649-333-00-9	270-094-8	68410-98-0	P
Solvent naphtha (petroleum), light arom., hydrotreated; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₈ through C ₁₀ and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).)	649-334-00-4	270-988-8	68512-78-7	P
Naphtha (petroleum), hydrodesulphurized thermal cracked light; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained by fractionation of hydrodesulphurized thermal cracker distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ to C ₁₁ and boiling in the range of approximately 23 °C to 195 °C (73 °F to 383 °F).)	649-335-00-X	285-511-9	85116-60-5	P

Substances	Index number	EC number	CAS number	Note
Naphtha (petroleum), hydrotreated light, cycloalkane-contg.; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained from the distillation of a petroleum fraction. It consists predominantly of alkanes and cycloalkanes boiling in the range of approximately – 20 °C to 190 °C (–4 °F to 374 °F).)	649-336-00-5	285-512-4	85116-61-6	P
Naphtha (petroleum), heavy steam- cracked, hydrogenated; Low boiling point hydrogen treated naphtha	649-337-00-0	295-432-1	92045-51-7	Р
Naphtha (petroleum), hydrodesulphurized full-range; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained from a catalytic hydrodesulphurization process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately 30 °C to 250 °C (86 °F to 482 °F).)	649-338-00-6	295-433-7	92045-52-8	P
Naphtha (petroleum), hydrotreated light steam-cracked; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained by treating a petroleum fraction, derived from a pyrolysis process, with hydrogen in the presence of a catalyst. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₁ and boiling in the range of approximately 35 °C to 190 °C (95 °F to 374 °F).)	649-339-00-1	295-438-4	92045-57-3	P
Hydrocarbons, C ₄₋₁₂ , naphtha-cracking, hydrotreated; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained by distillation from the product of naphtha steam cracking process and subsequent catalytic selective hydrogenation of gum formers. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₂ and boiling in the range of approximately 30 °C to 230 °C (86 °F to 446 °F).)	649-340-00-7	295-443-1	92045-61-9	P
Solvent naphtha (petroleum), hydrotreated light naphthenic; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists predominantly of cycloparaffinic hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₇ and boiling in the range of approximately 73 °C to 85 °C (163 °F to 185 °F).)	649-341-00-2	295-529-9	92062-15-2	P

Substances	Index number	EC number	CAS number	Not
Naphtha (petroleum), light steam-cracked, hydrogenated; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons produced from the separation and subsequent hydrogenation of the products of a steam-cracking process to produce ethylene. It consists predominantly of saturated and unsaturated paraffins, cyclic paraffins and cyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₀ and boiling in the range of approximately 50 °C to 200 °C (122 °F to 392 °F). The proportion of benzene hydrocarbons may vary up to 30 wt. % and the stream may also contain small amounts of sulphur and oxygenated compounds.)	649-342-00-8	296-942-7	93165-55-0	P
Hydrocarbons, C ₆₋₁₁ , hydrotreated, dear- omatized; Low boiling point hydrogen treated naphtha (A complex combination of hydrocar- bons obtained as solvents which have been subjected to hydrotreatment in order to convert aromatics to naphthenes by catalytic hydrogenation.)	649-343-00-3	297-852-0	93763-33-8	Р
Hydrocarbons, C ₉₋₁₂ , hydrotreated, dearomatized; Low boiling point hydrogen treated naphtha (A complex combination of hydrocarbons obtained as solvents which have been subjected to hydrotreatment in order to convert aromatics to naphthenes by catalytic hydrogenation.)	649-344-00-9	297-853-6	93763-34-9	P
Stoddard solvent; Low boiling point naphtha — unspecified (A colourless, refined petroleum distillate that is free from rancid or objectionable odours and that boils in a range of approximately 300 °F to 400 °F.)	649-345-00-4	232-489-3	8052-41-3	P
Natural gas condensates (petroleum); Low boiling point naphtha — unspecified (A complex combination of hydrocarbons separated as a liquid from natural gas in a surface separator by retrograde condensation. It consists mainly of hydrocarbons having carbon numbers predominantly in the range of C ₂ to C ₂₀ . It is a liquid at atmospheric temperature and pressure.)	649-346-00-X	265-047-3	64741-47-5	P
Natural gas (petroleum), raw liq. mix; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons separated as a liquid from natural gas in a gas recycling plant by processes such as refrigeration or absorption. It consists mainly of saturated aliphatic hydrocarbons having carbon numbers in the range of $\mathrm{C_2}$ through $\mathrm{C_8}$.)	649-347-00-5	265-048-9	64741-48-6	P

Substances	Index number	EC number	CAS number	Note
Naphtha (petroleum), light hydrocracked; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons from distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₀ , and boiling in the range of approximately –20 °C to 180 °C (–4 °F to 356 °F).)	649-348-00-0	265-071-4	64741-69-1	P
Naphtha (petroleum) heavy hydrocracked; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons from distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ , and boiling in the range of approximately 65 °C to 230 °C (148 °F to 446 °F).)	649-349-00-6	265-079-8	64741-78-2	P
Naphtha (petroleum), sweetened; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₂ and boiling in the range of approximately — 10 °C to 230 °C (14 °F to 446 °F).)	649-350-00-1	265-089-2	64741-87-3	P
Naphtha (petroleum), acid-treated; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained as a raffinate from a sulphuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C_7 through C_{12} and boiling in the range of approximately 90 °C to 230 °C (194 °F to 446 °F).)	649-351-00-7	265-115-2	64742-15-0	P
Naphtha (petroleum), chemically neutralized heavy; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ and boiling in the range of approximately 65 °C to 230 °C (149 °F to 446 °F).)	649-352-00-2	265-122-0	64742-22-9	P
Naphtha (petroleum), chemically neutralized light; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).)	649-353-00-8	265-123-6	64742-23-0	P

Substances	Index number	EC number	CAS number	Note
Naphtha (petroleum), catalytic dewaxed; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained from the catalytic dewaxing of a petroleum fraction. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₂ and boiling in the range of approximately 35 °C to 230 °C (95 °F to 446 °F).)	649-354-00-3	265-170-2	64742-66-1	P
Naphtha (petroleum), light steam-cracked; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by the distillation of the products from a steam cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately –20 °C to 190 °C (–4 °F to 374 °F). This stream is likely to contain 10 vol. % or more benzene.)	649-355-00-9	265-187-5	64742-83-2	P
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₈ through C ₁₀ and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).)	649-356-00-4	265-199-0	64742-95-6	P
Aromatic hydrocarbons, C_{6-10} , acid-treated, neutralized; Low boiling point naphtha — unspecified	649-357-00-X	268-618-5	68131-49-7	P
Distillates (petroleum), $C_{3.5}$, 2-methyl-2-butene-rich; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons from the distillation of hydrocarbons usually ranging in carbon numbers from C_3 through C_5 , predominantly isopentane and 3-methyl-1-butene. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C_3 through C_5 , predominantly 2-methyl-2-butene.)	649-358-00-5	270-725-7	68477-34-9	P
Distillates (petroleum), polymd. steam-cracked petroleum distillates, C_{5-12} fraction; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained from the distillation of polymerized steam-cracked petroleum distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_5 through C_{12} .)	649-359-00-0	270-735-1	68477-50-9	P

Substances	Index number	EC number	CAS number	Notes
Distillates (petroleum), steam-cracked, C_{5-12} fraction; Low boiling point naphtha — unspecified (A complex combination of organic compounds obtained by the distillation of products from a steam cracking process. It consists of unsaturated hydrocarbons having carbon numbers predominantly in the range of C_5 through C_{12} .)	649-360-00-6	270-736-7	68477-53-2	P
Distillates (petroleum), steam-cracked, C_{s-10} fraction, mixed with light steam-cracked petroleum naphtha C_s fraction; Low boiling point naphtha — unspecified	649-361-00-1	270-738-8	68477-55-4	P
Extracts (petroleum), cold-acid, C_{4-6} ; Low boiling point naphtha — unspecified (A complex combination of organic compounds produced by cold acid unit extraction of saturated and unsaturated aliphatic hydrocarbons usually ranging in carbon numbers from C_3 through C_6 , predominantly pentanes and amylenes. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers in the range of C_4 through C_6 , predominantly C_5 .)	649-362-00-7	270-741-4	68477-61-2	P
Distillates (petroleum), depentanizer overheads; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained from a catalytic cracked gas stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of $\mathrm{C_4}$ through $\mathrm{C_6}$.)	649-363-00-2	270-771-8	68477-894-4	P
Residues (petroleum), butane splitter bottoms; Low boiling point naphtha — unspecified (A complex residuum from the distillation of butane stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₆ .)	649-364-00-8	270-791-7	68478-12-6	P
Residual oils (petroleum), deisobutanizer tower; Low boiling point naphtha — unspecified (A complex residuum from the atmospheric distillation of the butane-butylene stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₆ .)	649-365-00-3	270-795-9	68478-16-0	P
Naphtha (petroleum), full-range coker; Low boiling point naphtha — unspeci- fied (A complex combination of hydrocar- bons produced by the distillation of products from a fluid coker. It consists predominantly of unsaturated hydrocar- bons having carbon numbers predomi- nantly in the range of C ₄ through C ₁₅ and boiling in the range of approximately 43 °C to 250 °C (110 °F to 500 °F).)	649-366-00-9	270-991-4	68513-02-0	P

Substances	Index number	EC number	CAS number	Notes
Naphtha (petroleum), steam-cracked middle arom.; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons produced by the distillation of products from a steam-cracking process. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 130 °C to 220 °C (266 °F to 428 °F).)	649-367-00-4	271-138-9	68516-20-1	P
Naphtha (petroleum), clay-treated full-range straight-run; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons resulting from treatment of full-range straight-run, naphtha with natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately — 20 °C to 220 °C (-4 °F to 429 °F).)	649-368-00-X	271-262-3	68527-21-9	P
Naphtha (petroleum), clay-treated light straight-run; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons resulting from treatment of light straight-run naphtha with a natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities, present. It consists of hydro-carbons having carbon numbers predominantly in the range of C ₇ through C ₁₀ and boiling in the range of approximately 93 °C to 180 °C (200 °F to 356 °F).)	649-369-00-5	271-263-9	68527-22-0	P
Naphtha (petroleum), light steam-cracked arom.; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₉ , and boiling in the range of approximately 110 °C to 165 °C (230 °F to 329 °F).)	649-370-00-0	271-264-4	68527-23-1	P
Naphtha (petroleum), light steam-cracked, debenzenized; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₂ and boiling in the range of approximately 80 °C to 218 °C (176 °F to 424 °F).)	649-371-00-6	271-266-5	68527-26-4	P
Naphtha (petroleum), aromcontg.; Low boiling point naphtha — unspecified	649-372-00-1	271-635-0	68603-08-7	Р

Substances	Index number	EC number	CAS number	Notes
Gasoline, pyrolysis, debutanizer bottoms; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained from the fractionation of depropanizer bottoms. It consists of hydrocarbons having carbon numbers predominantly greater than C ₅ .)	649-373-00-7	271-726-5	68606-10-0	P
Naphtha (petroleum), light, sweetened; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₆ and boiling in the range of approximately –20 °C to 100 °C (–4 °F to 212 °F).)	649-374-00-2	272-206-0	68783-66-4	P
Natural gas condensates; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons separated and/or condensed from natural gas during transportation and collected at the wellhead and/or from the production, gathering, transmission, and distribution pipelines in deeps, scrubbers, etc. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_2 through C_8 .)	649-375-00-8	272-896-3	68919-39-1	J
Distillates (petroleum), naphtha unifiner stripper; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons produced by stripping the products from the naphtha unifiner. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₆ .)	649-376-00-3	272-932-8	68921-09-5	P
Naphtha (petroleum), catalytic reformed light, aromfree fraction; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons remaining after removal of aromatic compounds from catalytic reformed light naphtha in a selective absorption process. It consists predominantly of paraffinic and cyclic compounds having carbon numbers predominantly in the range of C ₅ to C ₈ and boiling in the range of approximately 66 °C to 121 °C (151 °F to 250 °F).)	649-377-00-9	285-510-3	85116-59-2	P
Gasoline; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons consisting primarily of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having carbon numbers predominantly greater than C ₃ and boiling in the range of 30 °C to 260 °C (86 °F to 500 °F).)	649-378-00-4	289-220-8	86290-81-5	P

Substances	Index number	EC number	CAS number	Not
Aromatic hydrocarbons, $C_{7.8}$, dealkylation products, distn. residues; Low boiling point naphtha — unspecified	649-379-00-X	292-698-0	90989-42-7	P
Hydrocarbons, C ₄₋₆ , depentanizer lights, arom. hydrotreater; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained as first runnings from the depentanizer column before hydrotreatment of the aromatic charges. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₆ , predominantly pentanes and pentenes, and boiling in the range of approximately 25 °C to 40 °C (77 °F to 104 °F).)	649-380-00-5	295-298-4	91995-38-9	P
Distillates (petroleum), heat-soaked steam-cracked naphtha, C_5 -rich; Low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by distillation of heat-soaked steam-cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C_4 through C_6 , predominantly C_5 .)	649-381-00-0	295-302-4	91995-41-4	P
Extracts (petroleum), catalytic reformed light naphtha solvent; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained as the extract from the solvent extraction of a catalytically reformed petroleum cut. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₈ and boiling in the range of approximately 100 °C to 200 °C (212 °F to 392 °F).)	649-382-00-6	295-331-2	91995-68-5	P
Naphtha (petroleum), hydrodesulphurized light, dearomatized; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by distillation of hydrodesulphurized and dearomatized light petroleum fractions. It consists predominantly of C_7 paraffins and cycloparaffins boiling in a range of approximately 90 °C to 100 °C (194 °F to 212 °F).)	649-383-00-1	295-434-2	92045-53-9	Р
Naphtha (petroleum), light, C ₅ -rich, sweetened; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₅ , predominantly C ₅ , and boiling in the range of approximately –10 °C to 35 °C (14 °F to 95 °F).)	649-384-00-7	295-442-6	92045-60-8	P

Substances	Index number	EC number	CAS number	Note
Hydrocarbons, C ₈₋₁₁ , naphtha-cracking, toluene cut; low boiling point naphtha—unspecified (A complex combination of hydrocarbons obtained by distillation from prehydrogenated cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₈ through C ₁₁ and boiling in the range of approximately 130 °C to 205 °C (266 °F to 401 °F).)	649-385-00-2	295-444-7	92045-62-0	P
Hydrocarbons, C ₄₋₁₁ , naphtha-cracking; aromfree; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained from prehydrogenated cracked naphtha after distillative separation of benzene- and toluene-containing hydrocarbon cuts and a higher boiling fraction. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately 30 °C to 205 °C (86 °F to 401 °F).)	649-386-00-8	295-445-2	92045-63-1	P
Naphtha (petroleum), light heat-soaked, steam-cracked; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by the fractionation of steam cracked naphtha after recovery from a heat soaking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₆ and boiling in the range of approximately 0 °C to 80 °C (32 °F to 176 °F).)	649-387-00-3	296-028-8	92201-97-3	P
Distillates (petroleum), C ₆ -rich; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained from the distillation of a petroleum feedstock. It consists predominantly of hydrocarbons having carbon numbers of C ₅ through C ₇ , rich in C ₆ , and boiling in the range of approximately 60 °C to 70 °C (140 °F to 158 °F).)	649-388-00-9	296-903-4	93165-19-6	P
Gasoline, pyrolysis, hydrogenated; low boiling point naphtha — unspecified (A distillation fraction from the hydrogenation of pyrolysis gasoline boiling in the range of approximately 20 °C to 200 °C (68 °F to 392 °F).)	649-389-00-4	302-639-3	94114-03-1	Р
Distillates (petroleum), steam-cracked, $C_{8,12}$ fraction, polymd., distn. lights; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by distillation of the polymerized C_8 through C_{12} fraction from steam-cracked petroleum distillates. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C_8 through C_{12} .)	649-390-00-X	305-750-5	95009-23-7	P

Substances	Index number	EC number	CAS number	Note
Extracts (petroleum); heavy naphtha solvent, clay-treated; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by the treatment of heavy naphthic solvent petroleum extract with bleaching earth. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₈ , and boiling in the range of approximately 80 °C to 180 °C (175 °F to 356 °F).)	649-391-00-5	308-261-5	97926-43-7	P
Naphtha (petroleum), light steam-cracked, debenzenized, thermally treated; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by the treatment and distillation of debenzenized light steam-cracked petroleum naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 95 °C to 200 °C (203 °F to 392 °F).)	649-392-00-0	308-713-1	98219-46-6	P
Naphtha (petroleum), light steam-cracked, thermally treated; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by the treatment and distillation of light steam-cracked petroleum naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_5 through C_6 and boiling in the range of approximately 35 °C to 80 °C (95 °F to 176 °F).)	649-393-00-6	308-714-7	98219-47-7	P
Distillates (petroleum), $C_{7.9}$, C_8 -rich, hydrodesulphurized dearomatized; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by the distillation of petroleum light fraction, hydrodesulphurized and dearomatized. It consists predominantly of hydrocarbons having carbon numbers in the range of C_7 through C_9 , predominantly C_8 paraffins and cycloparaffins, boiling in the range of approximately 120 °C to 130 °C (248 °F to 266 °F).)	649-394-00-1	309-862-5	101316-56-7	P
Hydrocarbons, C ₆₋₈ , hydrogenated sorption-dearomatized, toluene raffination; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained during the sorption of toluene from a hydrocarbon fraction from cracked gasoline treated with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₈ and boiling in the range of approximately 80 °C to 135 °C (176 °F to 275 °F).)	649-395-00-7	309-870-9	101316-66-9	Р

Substances	Index number	EC number	CAS number	Note
Naphtha (petroleum), hydrodesulphurized full-range coker; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by fractionation from hydrodesulphurized coker distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ to C ₁₁ and boiling in the range of approximately 23 °C to 196 °C (73 °F to 385 °F).)	649-396-00-2	309-879-8	101316-76-1	P
Naphtha (petroleum), sweetened light; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₈ and boiling in the range of approximately 20 °C to 130 °C (68 °F to 266 °F).)	649-397-00-8	309-976-5	101795-01-1	P
Hydrocarbons, C ₃₋₆ , C ₅ -rich, steam-cracked naphtha; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by distillation of steam-cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₃ through C ₆ , predominantly C ₅ .)	649-398-00-3	310-012-0	102110-14-5	P
Hydrocarbons, C ₅ -rich, dicyclopentadiene-contg.; low boiling point naphtha—unspecified (A complex combination of hydrocarbons obtained by distillation of the products from a steam-cracking process. It consists predominantly of hydrocarbons having carbon numbers of C ₅ and dicyclopentadiene and boiling in the range of approximately 30 °C to 170 °C (86 °F to 338 °F).)	649-399-00-9	310-013-6	102110-15-6	P
Residues (petroleum), steam-cracked light, arom.; low boiling point naphtha — unspecified (A complex combination of hydrocarbons obtained by the distillation of the products of steam cracking or similar processes after taking off the very light products resulting in a residue starting with hydrocarbons having carbon numbers greater than C ₅ . It consists predominantly of aromatic hydrocarbons having carbon numbers greater than C ₅ and boiling above approximately 40 °C (104 °F).)	649-400-00-2	310-057-6	102110-55-4	P
Hydrocarbons, C_5 , C_{5-6} -rich; low boiling point naphtha — unspecified	649-401-00-8	270-690-8	68476-50-6	P
Hydrocarbons, C ₅₋₆ -rich; low boiling point naphtha — unspecified	649-402-00-3	270-695-5	68476-55-1	Р
Aromatic hydrocarbons, C ₈₋₁₀ ; Light oil redistillate, high boiling	649-403-00-9	292-695-4	90989-39-2	P

Substances	Index number	EC number	CAS number	Notes
Distillates (petroleum), light catalytic cracked; Cracked gas oil (A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₉ through C ₂₅ and boiling in the range of approximately 150 °C to 400 °C (302 °F to 752 °F). It contains a relatively large proportion of bicyclic aromatic hydrocarbons.)	649-435-00-3	265-060-4	64741-59-9	
Distillates (petroleum), intermediate catalytic cracked; Cracked gas oil (A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₁ through C ₃₀ and boiling in the range of approximately 205 °C to 450 °C (401 °F to 842 °F). It contains a relatively large proportion of tricyclic aromatic hydrocarbons.)	649-436-00-9	265-062-5	64741-60-2	
Distillates (petroleum), light thermal cracked; Cracked gas oil (A complex combination of hydrocarbons from the distillation of the products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₁₀ through C ₂₂ and boiling in the range of approximately 160 °C to 370 °C (320 °F to 698 °F).)	649-438-00-X	265-084-5	64741-82-8	
Distillates (petroleum), hydrodesulphurized light catalytic cracked; Cracked gas oil (A complex combination of hydrocarbons obtained by treating light catalytic cracked distillates with hydrogen to convert organic sulphur to hydrogen sulphide which is removed. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₉ through C ₂₅ and boiling in the range of approximately 150 °C to 400 °C (302 °F to 752 °F). It contains a relatively large proportion of bicyclic aromatic hydrocarbons.)	649-439-00-5	269-781-5	68333-25-5	
Distillates (petroleum), light steam-cracked naphtha; Cracked gas oil (A complex combination of hydrocarbons from the multiple distillation of products from a steam cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{10} through C_{18} .)	649-440-00-0	270-662-5	68475-80-9	
Distillates (petroleum), cracked steam-cracked petroleum distillates; Cracked gas oil (A complex combination of hydrocarbons produced by distilling cracked steam cracked distillate and/or its fractionation products. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₀ to low molecular weight polymers.)	649-441-00-6	270-727-8	68477-38-3	

Substances	Index number	EC number	CAS number	Note
Gas oils (petroleum), steam-cracked; Cracked gas oil (A complex combination of hydrocarbons produced by distillation of the products from a steam cracking process. It consists of hydrocarbons having carbon numbers predominantly greater than C ₉ and boiling in the range of from approximately 205 °C to 400 °C (400 °F to 752 °F).)	649-442-00-1	271-260-2	68527-18-4	
Distillates (petroleum), hydrodesulphurized thermal cracked middle; Cracked gas oil (A complex combination of hydrocarbons obtained by fractionation from hydrodesulphurized thermal cracker distillate stocks. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₁ to C ₂₅ and boiling in the range of from approximately 205 °C to 400 °C (401 °F to 752 °F).)	649-443-00-7	285-505-6	85116-53-6	
Gas oils (petroleum), thermal-cracked, hydrodesulphurized; Cracked gas oil	649-444-00-2	295-411-7	92045-29-9	
Residues (petroleum), hydrogenated steam-cracked naphtha; Cracked gas oil (A complex combination of hydrocarbons obtained as a residual fraction from the distillation of hydrotreated steam-cracked naphtha. It consists predominantly of hydrocarbons boiling in the range of approximately 200 °C to 350 °C (32 °F to 662 °F).)	649-445-00-8	295-514-7	92062-00-5	
Residues (petroleum), steam-cracked naphtha distn.; Cracked gas oil (A complex combination of hydrocarbons obtained as a column bottom from the separation of effluents from steam cracking naphtha at a high temperature. It boils in the range of approximately 147 °C to 300 °C (297 °F to 572 °F) and produces a finished oil having a viscosity of 18 cSt at 50 °C.)	649-446-00-3	295-517-3	92062-04-9	
Distillates (petroleum), light catalytic cracked, thermally degraded; Cracked gas oil (A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process which has been used as a heat transfer fluid. It consists predominantly of hydrocarbons boiling in the range of approximately 190 °C to 340 °C (374 °F to 644 °F). This steam is likely to contain organic sulphur compounds.)	649-447-00-9	295-991-1	92201-60-0	
Residues (petroleum), steam-cracked, heat-soaked naphtha; Cracked gas oil (A complex combination of hydrocarbons obtained as residue from the distillation of steam-cracked heat-soaked naphtha and boiling in the range of approximately 150 °C to 350 °C (302 °F to 662 °F).)	649-448-00-4	297-905-8	93763-85-0	

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Substances	Index number	EC number	CAS number	Notes
Gas oils (petroleum), light vacuum, thermal-cracked hydrodesulphurized; Cracked gas oil (A complex combination of hydrocarbons obtained by catalytic dehydrosulphurization of thermal-cracked light vacuum petroleum. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₄ through C ₂₀ and boiling in the range of approximately 270 °C to 370 °C (518 °F to 698 °F).)	649-450-00-5	308-278-8	97926-59-5	
Distillates (petroleum), hydrodesulphurized middle coker; Cracked gas oil (A complex combination of hydrocarbons by fractionation from hydrodesulphurized coker distillate stocks. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₂ through C ₂₁ and boiling in the range of approximately 200 °C to 360 °C (392 °F to 680 °F).)	649-451-00-0	309-865-1	101316-59-0	
Distillates (petroleum), heavy steam-cracked; Cracked gas oil (A complex combination of hydrocarbons obtained by distillation of steam cracking heavy residues. It consists predominantly of highly alkylated heavy aromatic hydrocarbons boiling in the range of approximately 250 °C to 400 °C (482 °F to 752 °F).)	649-452-00-6	309-939-3	101631-14-5	
Distillates (petroleum), heavy hydrocracked; Base oil — unspecified (A complex combination of hydrocarbons from the distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers in the range of C ₁₅ through C ₃₉ and boiling in the range of approximately 260 °C to 600 °C (500 °F to 1112 °F).)	649-453-00-1	265-077-7	64741-76-0	L
Distillates (petroleum), solvent-refined heavy paraffinic; Base oil — unspecified (A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of $\rm C_{20}$ through $\rm C_{50}$ and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C).)	649-454-00-7	265-090-8	64741-88-4	L
Distillates (petroleum), solvent-refined light paraffinic; Base oil — unspecified (A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of $\rm C_{15}$ through $\rm C_{30}$ and produces a finished oil having a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C).)	649-455-00-2	265-091-3	64741-89-5	L

Substances	Index number	EC number	CAS number	Note
Residual oils (petroleum), solvent deasphalted; Base oil — unspecified (A complex combination of hydrocarbons obtained as the solvent soluble fraction from $\mathrm{C_3\text{-}C_4}$ solvent deasphalting of a residuum. It consists of hydrocarbons having carbon numbers predominantly higher than $\mathrm{C_{25}}$ and boiling above approximately 400 °C (752 °F).)	649-456-00-8	265-096-0	64741-95-3	L
Distillates (petroleum), solvent-refined heavy naphthenic; Base oil — unspecified (A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C.) It contains relatively few normal paraffins.	649-457-00-3	265-097-6	64741-96-4	L
Distillates (petroleum), solvent-refined light naphthenic; Base oil — unspecified (A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-458-00-9	265-098-1	64741-97-5	L
Residual oils (petroleum), solvent-refined; Base oil — unspecified (A complex combination of hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly greater than C ₂₅ and boiling above approximately 400 °C (752 °F).)	649-459-00-4	265-101-6	64742-01-4	L
Distillates (petroleum), clay-treated paraffinic; Base oil — unspecified (A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₅₀ and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.)	649-460-00-X	265-137-2	64742-36-5	L

Substances	Index number	EC number	CAS number	Note
Distillates (petroleum), clay-treated light paraffinic; Base oil — unspecified (A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.)	649-461-00-5	265-138-8	64742-37-6	L
Residual oils (petroleum), clay-treated; Base oil — unspecified (A complex combination of hydrocarbons obtained by the treatment of a residual oil with a natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly greater than C ₂₅ and boiling above approximately 400 °C (752 °F).)	649-462-00-0	265-143-5	64742-41-2	L
Distillates (petroleum), clay-treated heavy naphthenic; Base oil — unspecified (A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with a natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₅₀ and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-463-00-6	265-146-1	64742-44-5	L
Distillates (petroleum), clay-treated light naphthenic; Base oil — unspecified (A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contacting or percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-464-00-1	265-147-7	64742-45-6	L

Substances	Index number	EC number	CAS number	Notes
Distillates (petroleum), hydrotreated heavy naphthenic; Base oil — unspecified (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₅₀ and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-465-00-7	265-155-0	64742-52-5	L
Distillates (petroleum), hydrotreated light naphthenic; Base oil — unspecified (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-466-00-2	265-156-6	64742-53-6	L
Distillates (petroleum), hydrotreated heavy paraffinic; Base oil — unspecified (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₅₀ and produces a finished oil of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.)	649-467-00-8	265-157-1	64742-54-7	L
Distillates (petroleum), hydrotreated light paraffinic; Base oil — unspecified (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains a relatively large proportion of saturated hydrocarbons.)	649-468-00-3	265-158-7	64742-55-8	L
Distillates (petroleum), solvent-dewaxed light paraffinic; Base oil — unspecified (A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C).)	649-469-00-9	265-159-2	64742-56-9	L

Substances	Index number	EC number	CAS number	Notes
Residual oils (petroleum), hydrotreated; Base oil — unspecified (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly greater than C ₂₅ and boiling above approximately 400 °C (752 °F).)	649-470-00-4	265-160-8	64742-57-0	L
Residual oils (petroleum), solvent-dewaxed; Base oil — unspecified (A complex combination of hydrocarbons obtained by removal of long, branched chain hydrocarbons from a residual oil by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly greater than C ₂₅ and boiling above approximately 400 °C (752 °F).)	649-471-00-X	265-166-0	64742-62-7	L
Distillates (petroleum), solvent-dewaxed heavy naphthenic; Base oil — unspecified (A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly in the range of $\rm C_{20}$ through $\rm C_{50}$ and produces a finished oil of not less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-472-00-5	265-167-6	64742-63-8	L
Distillates (petroleum), solvent-dewaxed light naphthenic; Base oil — unspecified (A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-473-00-0	265-168-1	64742-64-9	L
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Base oil — unspecified (A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₅₀ and produces a finished oil with a viscosity of not less than 100 SUS at 100 °F (19 cSt at 40 °C).)	649-474-00-6	265-169-7	64742-65-0	L
Naphthenic oils (petroleum), catalytic dewaxed heavy; Base oil — unspecified (A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-475-00-1	265-172-3	64742-68-3	L

Substances	Index number	EC number	CAS number	Note
Naphthenic oils (petroleum), catalytic dewaxed light; Base oil — unspecified (A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-476-00-7	265-173-9	64742-69-4	L
Paraffin oils (petroleum), catalytic dewaxed heavy; Base oil — unspecified (A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C).)	649-477-00-2	265-174-4	64742-70-7	L
Paraffin oils (petroleum), catalytic dewaxed light; Base oil — unspecified (A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C).)	649-478-00-8	265-176-5	64742-71-8	L
Naphthenic oils (petroleum), complex dewaxed heavy; Base oil — unspecified (A complex combination of hydrocarbons obtained by removing straight chain paraffin hydrocarbons as a solid by treatment with an agent such as urea. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₅₀ and produces a finished oil with a viscosity of at least 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-479-00-3	265-179-1	64742-75-2	L
Naphthenic oils (petroleum), complex dewaxed light; Base oil — unspecified (A complex combination of hydrocarbons obtained from a catalytic dewaxing process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil having a viscosity less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-480-00-9	265-180-7	64742-76-3	L

Substances	Index number	EC number	CAS number	Notes
Lubricating oils (petroleum), C ₂₀₋₅₀ , hydrotreated neutral oil-based high-viscosity; Base oil — unspecified (A complex combination of hydrocarbons obtained by treating light vacuum gas oil, heavy vacuum gas oil, and solvent deasphalted residual oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₅₀ and produces a finished oil having a viscosity of approximately 112 cSt at 40 °C. It contains a relatively large proportion of saturated hydrocarbons.)	649-481-00-4	276-736-3	72623-85-9	L
Lubricating oils (petroleum), C ₁₅₋₃₀ , hydrotreated neutral oil-based; Base oil—unspecified (A complex combination of hydrocarbons obtained by treating light vacuum gas oil and heavy vacuum gas oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil having a viscosity of approximately 15 cSt at 40 °C. It contains a relatively large proportion of saturated hydrocarbons.)	649-482-00-X	276-737-9	72623-86-0	L
Lubricating oils (petroleum), C ₂₀₋₅₉ , hydrotreated neutral oil-based; Base oil—unspecified (A complex combination of hydrocarbons obtained by treating light vacuum gas oil, heavy vacuum gas oil and solvent deasphalted residual oil with hydrogen in the presence of a catalyst in a two stage process with dewaxing being carried out between the two stages. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₅₀ and produces a finished oil with a viscosity of approximately 32 cSt at 40 °C. It contains a relatively large proportion of saturated hydrocarbons.)	649-483-00-5	276-738-4	72623-87-1	L
Lubricating oils; Base oil — unspecified (A complex combination of hydrocarbons obtained from solvent extraction and dewaxing processes. It consists predominantly of saturated hydrocarbons having carbon numbers in the range of C_{15} through C_{50} .)	649-484-00-0	278-012-2	74869-22-0	L
Distillates (petroleum), complex dewaxed heavy paraffinic; Base oil — unspecified (A complex combination of hydrocarbons obtained by dewaxing heavy paraffinic distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of $\rm C_{20}$ through $\rm C_{50}$ and produces a finished oil with a viscosity of equal to or greater than 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-485-00-6	292-613-7	90640-91-8	L

Substances	Index number	EC number	CAS number	Note
Distillates (petroleum), complex dewaxed light paraffinic; Base oil — unspecified (A complex combination of hydrocarbons obtained by dewaxing light paraffinic distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₂ through C ₃₀ and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19 cSt at 40 °C). It contains relatively few normal paraffins.)	649-486-00-1	292-614-2	90640-92-9	L
Distillates (petroleum), solvent-dewaxed heavy paraffinic, clay-treated; Base oil — unspecified (A complex combination of hydrocarbons obtained by treating dewaxed heavy paraffinic distillate with neutral or modified clay in either a contacting or percolation process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{30} .)	649-487-00-7	292-616-3	90640-94-1	L
Hydrocarbons, $C_{20.50}$, solvent-dewaxed heavy paraffinic, hydrotreated; Base oil — unspecified (A complex combination of hydrocarbons produced by treating dewaxed heavy paraffinic distillate with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} .)	649-488-00-2	292-617-9	90640-95-2	L
Distillates (petroleum), solvent dewaxed light paraffinic, clay-treated; Base oil — unspecified (A complex combination of hydrocarbons resulting from treatment of dewaxed light paraffinic distillate with natural or modified clay in either a contacting or percolation process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ .)	649-489-00-8	292-618-4	90640-96-3	L
Distillates (petroleum), solvent dewaxed light paraffinic, hydrotreated; Base oil — unspecified (A complex combination of hydrocarbons produced by treating a dewaxed light paraffinic distillate with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C_{15} through C_{30} .)	649-490-00-3	292-620-5	90640-97-4	L
Residual oils (petroleum), hydrotreated solvent dewaxed; Base oil — unspecified	649-491-00-9	292-656-1	90669-74-2	L
Residual oils (petroleum), catalytic dewaxed; Base oil — unspecified	649-492-00-4	294-843-3	91770-57-9	L

Substances	Index number	EC number	CAS number	Notes
Distillates (petroleum), dewaxed heavy paraffinic, hydrotreated; Base oil — unspecified (A complex combination of hydrocarbons obtained from an intensive treatment of dewaxed distillate by hydrogenation in the presence of a catalyst. It consists predominantly of saturated hydrocarbons having carbon numbers in the range of C ₂₅ through C ₃₉ and produces a finished oil with a viscosity of approximately 44 cSt at 50 °C.)	649-493-00-X	295-300-3	91995-39-0	L
Distillates (petroleum), dewaxed light paraffinic, hydrotreated; Base oil — unspecified (A complex combination of hydrocarbons obtained from an intensive treatment of dewaxed distillate by hydrogenation in the presence of a catalyst. It consists predominantly of saturated hydrocarbons having carbon numbers in the range of C ₂₁ through C ₂₉ and produces a finished oil with a viscosity of approximately 13 cSt at 50 °C.)	649-494-00-5	295-301-9	91995-40-3	L
Distillates (petroleum), hydrocracked solvent-refined, dewaxed; Base oil — unspecified (A complex combination of liquid hydrocarbons obtained by recrystallization of dewaxed hydrocracked solvent-refined petroleum distillates.)	649-495-00-0	295-306-6	91995-45-8	L
Distillates (petroleum), solvent-refined light naphthenic, hydrotreated; Base oil — unspecified (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst and removing the aromatic hydrocarbons by solvent extraction. It consists predominantly of naphthenic hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ and produces a finished oil with a viscosity of between 13-15 cSt at 40 °C.)	649-496-00-6	295-316-0	91995-54-9	L
Lubricating oils (petroleum) C_{17-35} , solvent-extd., dewaxed, hydrotreated; Base oil — unspecified	649-497-00-1	295-423-2	92045-42-6	L
Lubricating oils (petroleum), hydro- cracked nonarom. solvent-deparaffined; Base oil — unspecified	649-498-00-7	295-424-8	92045-43-7	L
Residual oils (petroleum), hydrocracked acid-treated solvent-dewaxed; Base oil — unspecified (A complex combination of hydrocarbons produced by solvent removal of paraffins from the residue of the distillation of acid-treated, hydrocracked heavy paraffins and boiling approximately above 380 °C (716 °F).)	649-499-00-2	295-499-7	92061-86-4	L

Substances	Index number	EC number	CAS number	Note
Paraffin oils (petroleum), solvent-refined dewaxed heavy; Base oil — unspecified (A complex combination of hydrocarbons obtained from sulphur-containing paraffinic crude oil. It consists predominantly of a solvent refined deparaffinated lubricating oil with a viscosity of 65 cSt at 50 °C.)	649-500-00-6	295-810-6	92129-09-4	L
Lubricating oils (petroleum), base oils, paraffinic; Base oil — unspecified (A complex combination of hydrocarbons obtained by refining crude oil. It consists predominantly of aromatics, naphthenics and paraffinics and produces a finished oil with a viscosity of 120 SUS at 100 °F (23 cSt at 40 °C).)	649-501-00-1	297-474-6	93572-43-1	L
Hydrocarbons, hydrocracked paraffinic distn. residues, solvent-dewaxed; Base oil — unspecified	649-502-00-7	297-857-8	93763-38-3	L
Hydrocarbons, C ₂₀₋₅₀ , residual oil hydrogenation vacuum distillate; Base oil — unspecified	649-503-00-2	300-257-1	93924-61-9	L
Distillates (petroleum), solvent-refined hydrotreated heavy; hydrogenated; Base oil — unspecified	649-504-00-8	305-588-5	94733-08-1	L
Distillates (petroleum), solvent-refined hydrocracked light; Base oil — unspecified (A complex combination of hydrocarbons obtained by solvent dearomatization of the residue of hydrocracked petroleum. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₈ through C ₂₇ and boiling in the range of approximately 370 °C to 450 °C (698 °F to 842 °F).)	649-505-00-3	305-589-0	94733-09-2	L
Lubricating oils (petroleum), C ₁₈₋₄₀ , solvent-dewaxed hydrocracked distillate-based; Base oil — unspecified (A complex combination of hydrocarbons obtained by solvent deparaffination of the distillation residue from hydrocracked petroleum. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₈ through C ₄₀ and boiling in the range of approximately 370 °C to 550 °C (698 °F to 1022 °F).)	649-506-00-9	305-594-8	94733-15-0	L
Lubricating oils (petroleum), C ₁₈₋₄₀ , solvent-dewaxed hydrogenated raffinate-based; Base oil — unspecified (A complex combination of hydrocarbons obtained by solvent deparaffination of the hydrogenated raffinate obtained by solvent extraction of a hydrotreated petroleum distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₈ through C ₄₀ and boiling in the range of approximately 370 °C to 550 °C (698 °F to 1022 °F).)	649-507-00-4	305-595-3	94733-16-1	L

Substances	Index number	EC number	CAS number	Note
Hydrocarbons, $C_{13,30}$, aromrich, solvent-extd. naphthenic distillate; Base oil — unspecified	649-508-00-X	305-971-7	95371-04-3	L
Hydrocarbons, C ₁₆₋₃₂ , aromrich, solvent-extd. naphthenic distillate; Base oil — unspecified	649-509-00-5	305-972-2	95371-05-4	L
Hydrocarbons, C _{37.68} , dewaxed deasphalted hydrotreated vacuum distn. residues; Base oil — unspecified	649-510-00-0	305-974-3	95371-07-6	L
Hydrocarbons, C ₃₇₋₆₅ , hydrotreated deasphalted vacuum distn. residues; Base oil — unspecified	649-511-00-6	305-975-9	95371-08-7	L
Distillates (petroleum), hydrocracked solvent-refined light; Base oil — unspecified (A complex combination of hydrocarbons obtained by the solvent treatment of a distillate from hydrocracked petroleum distillates. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₈ through C ₂₇ and boiling in the range of approximately 370 °C to 450 °C (698 °F to 842 °F).)	649-512-00-1	307-010-7	97488-73-8	L
Distillates (petroleum), solvent-refined hydrogenated heavy; Base oil — unspecified (A complex combination of hydrocarbons obtained by the treatment of a hydrogenated petroleum distillate with a solvent. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₉ through C ₄₀ and boiling in the range of approximately 390 °C to 550 °C (734 °F to 1022 °F).)	649-513-00-7	307-011-2	97488-74-9	L
Lubricating oils (petroleum) C ₁₈₋₂₇ , hydrocracked solvent-dewaxed; Base oil — unspecified	649-514-00-2	307-034-8	97488-95-4	L
Hydrocarbons, C ₁₇₋₃₀ , hydrotreated solvent-deasphalted atm. distn. residue, distn. lights; Base oil — unspecified (A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the treatment of a solvent deasphalted short residue with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₇ through C ₃₀ and boiling in the range of approximately 300 °C to 400 °C (572 °F to 752 °F). It produces a finished oil having a viscosity of 4 cSt at approximately 100 °C (212 °F).)	649-515-00-8	307-661-7	97675-87-1	L

Substances	Index number	EC number	CAS number	Not
Hydrocarbons, C ₁₇₋₄₀ , hydrotreated solvent-deasphalted distn. residue, vacuum distn. lights; Base oil — unspecified (A complex combination of hydrocarbons obtained as first runnings from the vacuum distillation of effluents from the catalytic hydrotreatment of a solvent deasphalted short residue having a viscosity of 8 cSt at approximately 100 °C (212 °F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₇ through C ₄₀ and boiling in the range of approximately 300 °C to 500 °C (592 °F to 932 °F).)	649-516-00-3	307-755-8	97722-06-0	L
Hydrocarbons, C ₁₃₋₂₇ , solvent-extd. light naphthenic; Base oil — unspecified (A complex combination of hydrocarbons obtained by extraction of the aromatics from a light naphthenic distillate having a viscosity of 9.5 cSt at 40 °C (104 °F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₃ through C ₂₇ and boiling in the range of approximately 240 °C to 400 °C (464 °F to 752 °F).)	649-517-00-9	307-758-4	97722-09-3	L
Hydrocarbons, C _{14.29} , solvent-extd. light naphthenic; Base oil — unspecified (A complex combination of hydrocarbons obtained by extraction of the aromatics from a light naphthenic distillate having a viscosity of 16 cSt at 40 °C (104 °F). It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₄ through C ₂₉ and boiling in the range of approximately 250 °C to 425 °C (482 °F to 797 °F).)	649-518-00-4	307-760-5	97722-10-6	L
Hydrocarbons, C _{27,42} , dearomatized; Base oil — unspecified	649-519-00-X	308-131-8	97862-81-2	L
Hydrocarbons, C ₁₇₋₃₀ , hydrotreated distillates, distn. lights; Base oil — unspecified	649-520-00-5	308-132-3	97862-82-3	L
Hydrocarbons, C ₂₇₋₄₅ , naphthenic vacuum distn.; Base oil — unspecified	649-521-00-0	308-133-9	97862-83-4	L
Hydrocarbons, C _{27,45} , dearomatized; Base oil — unspecified	649-522-00-6	308-287-7	97926-68-6	L
Hydrocarbons, C ₂₀₋₅₈ , hydrotreated; Base oil — unspecified	649-523-00-1	308-289-8	97926-70-0	L
Hydrocarbons, C ₂₇₋₄₂ , naphthenic; Base oil — unspecified	649-524-00-7	308-290-3	97926-71-1	L
Residual oils (petroleum), carbon-treated solvent-dewaxed; Base oil — unspecified (A complex combination of hydrocarbons obtained by the treatment of solvent-dewaxed petroleum residual oils with activated charcoal for the removal of trace polar constituents and impurities.)	649-525-00-2	309-710-8	100684-37-5	L

Substances	Index number	EC number	CAS number	Note
Residual oils (petroleum), clay-treated solvent-dewaxed; Base oil — unspecified (A complex combination of hydrocarbons obtained by treatment of solvent-dewaxed petroleum residual oils with bleaching earth for the removal of trace polar constituents and impurities.)	649-526-00-8	309-711-3	100684-38-6	L
Lubricating oils (petroleum) C ₂₅ , solvent-extd., deasphalted, dewaxed, hydrogenated; baseoil — unspecified (A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of vacuum distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of greater than C ₂₅ and produces a finished oil with a viscosity in the order of 32 cSt to 37 cSt at 100 °C (212 °F).)	649-527-00-3	309-874-0	101316-69-2	L
Lubricating oils (petroleum) C ₁₇₋₃₂ , solvent-extd., dewaxed, hydrogenated; Base oil — unspecified (A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₇ through C ₃₂ and produces a finished oil with a viscosity in the order of 17 cSt to 23 cSt at 40 °C (104 °F).)	649-528-00-9	309-875-6	101316-70-5	L
Lubricating oils (petroleum) $C_{20.35}$, solvent-extd., dewaxed, hydrogenated; Base oil — unspecified (A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{35} and produces a finished oil with a viscosity in the order of 37 cSt to 44 cSt at 40 °C (104 °F).)	649-529-00-4	309-876-1	101316-71-6	L
Lubricating oils (petroleum) C ₂₄₋₅₀ , solvent-extd., dewaxed, hydrogenated; Base oil — unspecified (A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₂₄ through C ₅₀ and produces a finished oil with a viscosity in the order of 16 cSt to 75 cSt at 40 °C (104 °F).)	649-530-00-X	309-877-7	101316-72-7	L
Extracts (petroleum), heavy naphthenic distillate solvent, arom. conc.; Distillate aromatic extract (treated) (An aromatic concentrate produced by adding water to heavy naphthenic distillate solvent extract and extraction solvent.)	649-531-00-5	272-175-3	68783-00-6	L

Substances	Index number	EC number	CAS number	Note
Extracts (petroleum), solvent-refined heavy paraffinic distillate solvent; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained as the extract from the reextraction of solvent-refined heavy paraffinic distillate. It consists of saturated and aromatic hydrocarbons having carbon numbers predominantly in the range of $\rm C_{20}$ through $\rm C_{50}$.)	649-532-00-0	272-180-0	68783-04-0	L
Extracts (petroleum), heavy paraffinic distillates, solvent-deasphalted; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained as the extract from a solvent extraction of heavy paraffinic distillate.)	649-533-00-6	272-342-0	68814-89-1	L
Extracts (petroleum), heavy naphthenic distillate solvent, hydrotreated; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained by treating a heavy naphthenic distillate solvent extract with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₅₀ and produces a finished oil of at least 19 cSt at 40 °C (100 SUS at 100 °F).)	649-534-00-1	292-631-5	90641-07-9	L
Extracts (petroleum), heavy paraffinic distillate solvent, hydrotreated; Distillate aromatic extract (treated) (A complex combination of hydrocarbons produced by treating a heavy paraffinic distillate solvent extract with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of $\rm C_{21}$ through $\rm C_{33}$ and boiling in the range of approximately 350 °C to 480 °C (662 °F to 896 °F).)	649-535-00-7	292-632-0	90641-08-0	L
Extracts (petroleum), light paraffinic distillate solvent, hydrotreated; Distillate aromatic extract (treated) (A complex combination of hydrocarbons produced by treating a light paraffinic distillate solvent extract with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₇ through C ₂₆ and boiling in the range of approximately 280 °C to 400 °C (536 °F to 752 °F).)	649-536-00-2	292-633-6	90641-09-1	L
Extracts (petroleum), hydrotreated paraffinic light distillate solvent; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained as the extract from solvent extraction of intermediate paraffinic top solvent distillate that is treated with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₁₆ through C ₃₆ .)	649-537-00-8	295-335-4	91995-73-2	L

Substances	Index number	EC number	CAS number	Note
Extracts (petroleum), light naphthenic distillate solvent, hydrodesulphurized; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained by treating the extract, obtained from a solvent extraction process, with hydrogen in the presence of a catalyst under conditions primarily to remove sulphur compounds. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₃₀ . This stream is likely to contain 5 wt. % or more of 4- to 6-membered condensed ring aromatic hydrocarbons.)	649-538-00-3	295-338-0	91995-75-4	L
Extracts (petroleum), light paraffinic distillate solvent, acid-treated; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained as a fraction of the distillation of an extract from the solvent extraction of light paraffinic top petroleum distillates that is subjected to a sulphuric acid refining. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C_{16} through C_{32} .)	649-539-00-9	295-339-6	91995-76-5	L
Extracts (petroleum), light paraffinic distillate solvent, hydrodesulphurized; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained by solvent extraction of a light paraffin distillate and treated with hydrogen to convert the organic sulphur to hydrogen sulphide which is eliminated. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₄₀ and produces a finished oil having a viscosity of greater than 10 cSt at 40 °C.)	649-540-00-4	295-340-1	91995-77-6	L
Extracts (petroleum), light vacuum gas oil solvent, hydrotreated; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained by solvent extraction from light vacuum petroleum gas oils and treated with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C_{13} through C_{30} .)	649-541-00-X	295-342-2	91995-79-8	L
Extracts (petroleum), heavy paraffinic distillate solvent, clay-treated; Distillate aromatic extract (treated) (A complex combination of hydrocarbons resulting from treatment of a petroleum fraction with natural or modified clay in either a contact or percolation process to remove the trace amounts of polar compounds and impurities present. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₂₀ through C ₅₀ . This stream is likely to contain 5 wt. % or more 4-6 membered ring aromatic hydrocarbons.)	649-542-00-5	296-437-1	92704-08-0	L

Substances	Index number	EC number	CAS number	Notes
Extracts (petroleum), heavy naphthenic distillate solvent, hydrodesulphurized; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained from a petroleum stock by treating with hydrogen to convert organic sulphur to hydrogen sulphide which is removed. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₅₀ and produces a finished oil with a viscosity of greater than 19 cSt at 40 °C.)	649-543-00-0	297-827-4	93763-10-1	L
Extracts (petroleum), solvent-dewaxed heavy paraffinic distillate solvent, hydrodesulphurized; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained from a solvent dewaxed petroleum stock by treating with hydrogen to convert organic sulphur to hydrogen sulphide which is removed. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁₅ through C ₅₀ and produces a finished oil with a viscosity of greater than 19 cSt at 40 °C.)	649-544-00-6	297-829-5	93763-11-2	L
Extracts (petroleum), light paraffinic distillate solvent, carbon-treated; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained as a fraction from distillation of an extract recovered by solvent extraction of light paraffinic top petroleum distillate treated with activated charcoal to remove traces of polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₁₆ through C ₃₂ .)	649-545-00-1	309-672-2	100684-02-4	L
Extracts (petroleum), light paraffinic distillate solvent, clay-treated; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained as a fraction from distillation of an extract recovered by solvent extraction of light paraffinic top petroleum distillates treated with bleaching earth to remove traces of polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₁₆ through C ₃₂ .)	649-546-00-7	309-673-8	100684-03-5	L
Extracts (petroleum), light vacuum, gas oil solvent, carbon-treated; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained by solvent extraction of light vacuum petroleum gas oil treated with activated charcoal for the removal of trace polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C_{13} through C_{30} .)	649-547-00-2	309-674-3	100684-04-6	L

▼M21

	Substances	Index number	EC number	CAS number	Notes
	Extracts (petroleum), light vacuum, gas oil solvent, clay-treated; Distillate aromatic extract (treated) (A complex combination of hydrocarbons obtained by solvent extraction of light vacuum petroleum gas oils treated with bleaching earth for removal of trace polar constituents and impurities. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C_{13} through C_{30} .)	649-548-00-8	309-675-9	100684-05-7	L
	Foots oil (petroleum); Foots oil (A complex combination of hydrocarbons obtained as the oil fraction from a solvent deoiling or a wax sweating process. It consists predominantly of branched chain hydrocarbons having carbon numbers predominantly in the range of C_{20} through C_{50} .)	649-549-00-3	265-171-8	64742-67-2	L
	Foots oil (petroleum), hydrotreated; Foots oil	649-550-00-9	295-394-6	92045-12-0	L
▼ <u>M27</u>	Refractory ceramic fibres; Special Purpose Fibres, with the exception of those specified elsewhere in Annex I to Directive 67/548/EEC; [Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na ₂ O + K ₂ O + CaO + MgO + BaO) content less or equal to 18 % by weight]	650-017-00-8			R

▼<u>M21</u>

Point 30 — Mutagens: category 2

Substances	Index number	EC number	CAS number	Notes
hexamethylphosphoric triamide; hexamethylphosphoramide	015-106-00-2	211-653-8	680-31-9	
diethyl sulphate	016-027-00-6	200-589-6	64-67-5	
benzo[a]pyrene; benzo[d,e,f]chrysene	601-032-00-3	200-028-5	50-32-8	
1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8	
ethylene oxide; oxirane	603-023-00-X	200-849-9	75-21-8	
methyl acrylamidomethoxyacetate (containing ≥ 0,1 % acrylamid)	607-190-00-X	401-890-7	77402-03-0	
methyl acrylamidoglycolate (containing ≥ 0,1 % acrylamide)	607-210-00-7	403-230-3	77402-05-2	
ethyleneimine; aziridine	613-001-00-1	205-793-9	151-56-4	
acrylamide	616-003-00-0	201-173-7	79-06-1	

▼<u>M24</u>

Substances	Index number	EC number	CAS number	Note
Potassium dichromate	024-002-00-6	231-906-6	7778-50-9	
Ammonium dichromate	024-003-00-1	232-143-1	7789-09-5	
Sodium dichromate	024-004-00-7	234-190-3	10588-01-9	
Sodiumdichromate, dihydrate	024-004-01-4	234-190-3	7789-12-0	
Chromyl dichloride; chromic oxychloride	024-005-00-2	239-056-8	14977-61-8	
Potassium chromate	024-006-00-8	232-140-5	7789-00-6	
1,3,5,-tris(oxiranylmethyl)-1,3,5-tria- zine-2,4,6(1H,3H,5H)-trione; TGIC	615-021-00-6	219-514-3	2451-62-9	

Point 31 — Toxic for reproduction: category 1

Substances	Index number	EC number	CAS number	Note
carbon monoxide	006-001-00-2	211-128-3	630-08-0	
lead hexafluorosilicate	009-014-00-1	247-278-1	25808-74-6	
lead compounds with the exception of those specified elsewhere in this Annex	082-001-00-6			
lead alkyls	082-002-00-1			
lead azide	082-003-00-7	236-542-1	13424-46-9	
lead chromate	082-004-00-2	231-846-0	7758-97-6	
lead di(acetate)	082-005-00-8	206-104-4	301-04-2	
trilead bis(orthophosphate)	082-006-00-3	231-205-5	7446-27-7	
lead acetate	082-007-00-9	215-630-3	1335-32-6	
lead(II) methanesulphonate	082-008-00-4	401-750-5	17570-76-2	
C.I. Pigment Yellow 34; (This substance is identified in the Colour Index by Colour Index Constitu- tion Number, C.I. 77603.)	082-009-00-X	215-693-7	1344-37-2	
C.I. Pigment Red 104; (This substance is identified in the Colour Index by Colour Index Consititu- tion Number, C.I. 77605.)	082-010-00-5	235-759-9	12656-85-8	
lead hydrogen arsenate	082-011-00-0	232-064-2	7784-40-9	
1,2-Dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8	
warfarin; 4-hydroxy-3-(3-oxo-1-phenyl- butyl)coumarin	607-056-00-0	201-377-6	81-81-2	
lead 2,4,6-trinitroresorcinoxide, lead styphnate	609-019-00-4	239-290-0	15245-44-0	

Point 31 — Toxic for reproduction: category 2

	Substances	Index number	EC number	CAS number	Notes
▼ <u>M27</u>	6-(2-chloroethyl)-6(2-methoxyethoxy)-2,5,7,10-tetraoxa-6-silaundecane; etacelasil	014-014-00-X	253-704-7	37894-46-5	
▼ <u>M21</u>	nickel tetracarbonyl	028-001-00-1	236-669-2	13463-39-3	
	benzo[a]pyrene; benzo[d,e,f]chrysene	601-032-00-3	200-028-5	50-32-8	
	2-methoxyethanol; ethylene glycol monomethyl ether	603-011-00-4	203-713-7	109-86-4	
	2-ethoxyethanol; ethylene glycol mono- ethyl ether	603-012-00-X	203-804-1	110-80-5	
	2-methoxyethyl acetate; methylglycol acetate	607-036-00-1	203-772-9	110-49-6	
	2-ethoxyethyl acetate; ethylglycol acetate	607-037-00-7	203-839-2	111-15-9	
	2-ethylhexyl 3,5-bis(1,1-dimethylethyl)- 4-hydroxyphenyl methyl thio acetate	607-203-00-9	279-452-8	80387-97-9	
▼ <u>M24</u> ▼ <u>M21</u>	bis(2-Methoxyethyl) phthalate	607-228-00-5	204-212-6	117-82-8	
	binapacryl (ISO); 2-sec-butyl-4,6-dinitrophenyl-3-methylcrotonate	609-024-00-1	207-612-9	485-31-4	
	dinoseb; 6-sec-butyl-2,4-dinitrophenol	609-025-00-7	201-861-7	88-85-7	
	salts and esters of dinoseb, with the exception of those specified elsewhere in this Annex	609-026-00-2			
	dinoterb; 2-tert-butyl-4,6-dinitrophenol	609-030-00-4	215-813-8	1420-07-1	
	salts and esters of dinoterb	609-031-00-X			
	nitrofen (ISO); 2,4 dichlorophenyl 4-nitrophenyl ether	609-040-00-9	217-406-0	1836-75-5	
	methyl-ONN-azoxymethyl acetate; methyl azoxy methyl acetate	611-004-00-2	209-765-7	592-62-1	
	ethylene thiourea; imidazolidine-2-thione; 2-imidazoline-2-thiol	613-039-00-9	202-506-9	96-45-7	
	N,N-dimethylformamide; dimethyl formamide	616-001-00-X	200-679-5	68-12-2	

Point 43 — Azocolourants

List of aromatic amines

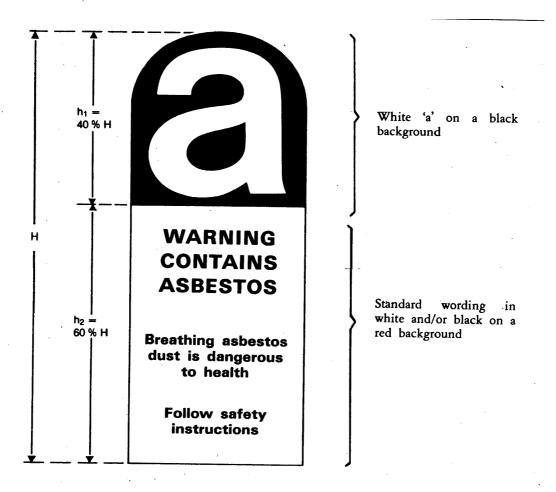
	CAS number	Index number	EC number	Substances
1	92-67-1	612-072-00-6	202-177-1	biphenyl-4-ylamine 4-aminobiphenyl xenylamine
2	92-87-5	612-042-00-2	202-199-1	benzidine
3	95-69-2		202-441-6	4-chloro-o-toluidine
4	91-59-8	612-022-00-3	202-080-4	2-naphthylamine
5	97-56-3	611-006-00-3	202-591-2	o-aminoazotoluene 4-amino-2',3-dimethylazoben- zene 4-o-tolylazo-o-toluidine
6	99-55-8		202-765-8	5-nitro-o-toluidine
7	106-47-8	612-137-00-9	203-401-0	4-chloroaniline
8	615-05-4		210-406-1	4-methoxy-m-phenylenedia- mine
9	101-77-9	612-051-00-1	202-974-4	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane
10	91-94-1	612-068-00-4	202-109-0	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'- ylenediamine
11	119-90-4	612-036-00-X	204-355-4	3,3'-dimethoxybenzidine o- dianisidine
12	119-93-7	612-041-00-7	204-358-0	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine
13	838-88-0	612-085-00-7	212-658-8	4,4'-methylenedi-o-toluidine
14	120-71-8		204-419-1	6-methoxy-m-toluidine p- cresidine
15	101-14-4	612-078-00-9	202-918-9	4,4'-methylene-bis-(2-chloro-aniline) 2,2'-dichloro-4,4'-methylene-dianiline
16	101-80-4		202-977-0	4,4'-oxydianiline
17	139-65-1		205-370-9	4,4'-thiodianiline
18	95-53-4	612-091-00-X	202-429-0	o-toluidine 2-aminotoluene
19	95-80-7	612-099-00-3	202-453-1	4-methyl-m-phenylenedia- mine
20	137-17-7		205-282-0	2,4,5-trimethylaniline
21	90-04-0	612-035-00-4	201-963-1	o-anisidine 2-methoxyaniline
22	60-09-3	611-008-00-4	200-453-6	4-amino azobenzene
	1	1	1	ı

ANNEX II

► M6 A. Special provisions on the labelling of products containing asbestos

- All products containing asbestos or the packaging thereof shall bear the label defined as follows
 - (a) the label conforming to the specimen below shall be at least 5 cm high(H) and 2,5 cm wide;
 - (b) it shall consist of two parts:
 - the top part ($h_1 = 40 \% H$) shall include the letter 'a' in white, on a black background,
 - the bottom part (h₂= 60 % H) shall include the standard wording in white and/or black, on a red background, and shall be clearly legible;
 - (c) if the product contains crocidolite, the words 'contains asbestos' used in the standard wording shall be replaced by 'contains crocidolite/blue asbestos'

Member States may exclude from the provision of the first subparagraph hereof products intended to be placed on the market in their territory. The labelling of these products must however bear the wording 'contains asbestos';



- (d) if labelling takes the form of direct printing on the products, a single colour contrasting with the background colour is sufficient.
- The label mentioned in this Annex shall be affixed in accordance with the following rules:
 - (a) on each of the smallest units supplied;
 - (b) if a product has asbestos-based components, it is sufficient for these components only to bear the label. The labelling may be dispensed with if smallness of size or unsuitability of packaging make it impossible for a label to be affixed to the component.

▼M5

- 3. Labelling of packaged products containing asbestos
- 3.1. The following particulars shall appear on clearly legible and indelible labelling on the packaging of packaged products containing asbestos:
 - (a) the symbol and relevant indications of danger in accordance with this Annex;
 - (b) safety instructions which must be selected in accordance with the particulars in this Annex, inasmuch as they are relevant for the particular product.

Where additional safety information is provided on the packaging, this shall not weaken or contradict the particulars given in accordance with (a) and (b).

- 3.2. Labelling in accordance with 3.1 shall be effected by means of:
 - a label firmly affixed to the packaging, or
 - a (tie-on) label securely attached to the package, or
 - direct printing of the packaging.
- 3.3. Products containing asbestos and which are packaged only in loose plastic wrapping or the like shall be regarded as packaged products and shall be labelled in accordance with 3.2. If products are separated from such packages and placed on the market unpackaged, each of the smallest units supplied shall be accompanied by labelling particulars in accordance with 3.1.
- 4. Labelling of unpackaged products containing asbestos

For unpackaged products containing asbestos, labelling in accordance with 3.1 shall be effected by means of:

- a label firmly affixed to the product containing asbestos,
- a (tie-on) label securely attached to such product,
- direct printing on the products,

or, if the abovementioned is not reasonably practicable as in the case of, for example, smallness of size of the product, the unsuitable nature of the product's properties or certain technical difficulties by means of a hand-out with labelling in accordance with 3.1.

- 5. Without prejudice to Community provisions on safety and hygiene at work, the label affixed to the product which may, in the context of its use, be processed or finished, should be accompanied by any safety instructions which may be appropriate for the product concerned, and in particular by the following:
 - operate if possible out of doors or in a well-ventilated place,
 - preferably use hand tools or low-speed tools equipped, if necessary, with an appropriate dust-extraction facility. If high-speed tools are used, they should always be equipped with such a facility,
 - if possible, dampen before cutting or drilling,
 - dampen dust and place it in a properly closed receptacle and dispose of it safely.
- 6. The labelling of any product intended for domestic use which is not covered by 5 and which is likely, during use, to release asbestos fibres should, if necessary, contain the following safety instruction: 'replace when worn'.
- Member States may make the placing on the market in their territory of products containing asbestos subject to the use of their official language or languages on the labelling.

▼M6

B. Specific provisions relating to the labelling of products containing PCBs and PCTs

Without prejudice to the provisions of other Directives relating to the labelling of dangerous substances and preparations, Member States may require equipment and plant containing PCBs or PCTs also to display instructions concerning the disposal of PCBs and PCTs and the maintenance and use of equipment and plant containing them. These instructions must be capable of being read horizontally when the object containing the PCBs or PCTs is installed in the normal way. The inscription must stand out clearly from its background.

Member States may require the inscription to be in a language which is understood in their territory.