

Directive 2005/90/EC of the European Parliament and of the Council of 18 January 2006 amending, for the 29th time, Council Directive 76/769/EEC 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 (substances classified as carcinogenic, mutagenic or toxic to reproduction — c/m/r) (Text with EEA relevance)

DIRECTIVE 2005/90/EC OF THE EUROPEAN
PARLIAMENT AND OF THE COUNCIL

of 18 January 2006

amending, for the 29th time, Council Directive 76/769/EEC 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 (substances classified as carcinogenic, mutagenic or toxic to reproduction — c/m/r)

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Article 95 thereof,

Having regard to the proposal from the Commission,

Having regard to the opinion of the European Economic and Social Committee⁽¹⁾,

Acting in accordance with the procedure laid down in Article 251 of the Treaty⁽²⁾,

Whereas:

- (1) The measures provided for in this Directive fall within the framework of the action plan adopted in Decision No 1786/2002/EC of the European Parliament and of the Council of 23 September 2002 adopting a programme of Community action in the field of public health (2003 to 2008)⁽³⁾. According to that Decision the Community is committed to promoting and improving health, preventing disease, and countering potential threats to health, with a view to reducing avoidable morbidity and premature mortality and activity-impairing disability.
- (2) The substances which appear in Annex I to Council Directive 67/548/EEC of 27 June 1967 on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances⁽⁴⁾ and are classified as carcinogens category 1 or 2 may cause cancer. The substances which appear in Annex I to Directive 67/548/EEC and are classified as mutagens category 1 or 2 may cause heritable genetic damage. The substances which appear in Annex I to Directive 67/548/EEC and are classified as toxic to reproduction category 1 or 2 may cause birth defects or may impair fertility.

- (3) In order to improve human health protection and consumer safety, the use of substances newly-classified as carcinogenic, mutagenic or toxic to reproduction of category 1 or 2 should be regulated and the placing on the market of substances and preparations containing them should be subject to restriction for sale to the general public.
- (4) Council Directive 76/769/EEC 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⁽⁵⁾ lays down restrictions on the marketing and use of certain dangerous substances and preparations, with the objective, among others, to improve human health protection and consumer safety.
- (5) Directive 94/60/EC of the European Parliament and of the Council⁽⁶⁾ amending for the 14th time Directive 76/769/EEC, establishes, in the form of an Appendix to Annex I to Directive 76/769/EEC, a list containing substances classified as carcinogenic, mutagenic or toxic to reproduction of category 1 or 2. Such substances and preparations containing them should be subject to restriction for sale to the general public.
- (6) Directive 94/60/EC provides that, no later than six months after publication in the *Official Journal of the European Union* of an adaptation to technical progress of Annex I to Directive 67/548/EEC, which contains substances classified as carcinogenic, mutagenic or toxic to reproduction in category 1 or 2, the Commission will submit to the European Parliament and Council a proposal for a directive regulating these newly-classified substances, so as to update the Appendix of Annex I to Directive 76/769/EEC. The proposal from the Commission will take account of the risks and advantages of the newly-classified substances, as well as of the Community legislative provisions on risk analysis.
- (7) Commission Directive 2004/73/EC of 29 April 2004 adapting to technical progress for the 29th time Council Directive 67/548/EEC, and more particularly Annex I thereto, includes 146 entries containing substances newly-classified as carcinogenic category 1, 21 entries containing substances newly-classified as carcinogenic category 2, 152 entries containing substances newly-classified as mutagenic category 2 and 24 entries containing substances newly-classified as toxic to reproduction category 2.
- (8) Directive 2004/73/EC also amends the notes relating to the identification, classification and labelling ascribed to four substances classified as carcinogenic category 1, thirty-six entries containing substances classified as carcinogenic category 2, six entries containing substances classified as mutagenic category 2, two entries containing substances classified as toxic to reproduction category 1 and three entries containing substances classified as toxic to reproduction category 2. The lists in the Appendix of Annex I to Directive 76/769/EEC should be amended accordingly.
- (9) The risks and advantages of the substances newly-classified by Directive 2004/73/EC as carcinogenic, mutagenic or toxic to reproduction of category 1 or 2 have been taken into account, in particular those relating to the substances which were not yet subject to a restriction for use in substances and preparations placed on the market for sale to the general public (due to an earlier classification). This analysis concluded that these

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newly-classified substances could be inserted in the Appendix of Annex I to Directive 76/769/EEC.

- (10) This Directive should apply without prejudice to Community legislation laying down minimum requirements for the protection of workers contained in Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work⁽⁷⁾, and individual directives based thereon, in particular Directive 2004/37/EC of the European Parliament and of the Council of 29 April 2004 on the protection of workers from the risks related to exposure to carcinogens or mutagens at work⁽⁸⁾,

HAVE ADOPTED THIS DIRECTIVE:

Article 1

The Appendix of Annex I to Directive 76/769/EEC shall be amended as set out in the Annex to this Directive.

Article 2

1 Member States shall adopt and publish the laws, regulations and administrative provisions necessary to comply with this Directive before 24 February 2007. They shall forthwith communicate to the Commission the text of those measures and a correlation table between those measures and this Directive.

They shall apply those measures from 24 August 2007.

When Member States adopt these measures, they shall contain a reference to this Directive or be accompanied by such reference on the occasion of their official publication. The methods of making such reference shall be determined by the Member States.

2 Member States shall communicate to the Commission the text of the main provisions of national law which they adopt in the field covered by this Directive.

Article 3

This Directive shall enter into force on the 20th day following its publication in the *Official Journal of the European Union*.

Article 4

This Directive is addressed to the Member States.

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Done at Strasbourg, 18 January 2006.

For the European Parliament

The President

J. BORRELL FONTELLES

For the Council

The President

H. WINKLER

ANNEX

1. The heading ‘Notes’ of the Foreword shall be amended as follows:

(a) the following notes are inserted:

Note A:

The name of the substance must appear on the label in the form of one of the designations given in Annex I to Directive 67/548/EEC (see Article 23(2) (a)).

In Annex I to Directive 67/548/EEC, use is sometimes made of a general description such as “... compounds” or “... salts”. In this case, the manufacturer or any other person who markets such a substance is required to state on the label the correct name, due account being taken of the chapter entitled “Nomenclature” of the Foreword.

Directive 67/548/EEC also requires that the symbols, indications of danger, R- and S-phrases to be used for each substance shall be those shown in Annex I (Article 23(2)(c), (d) and (e)).

For substances belonging to one particular group of substances included in Annex I to Directive 67/548/EEC, the symbols, indications of danger, R- and S-phrases to be used for each substance shall be those shown in the appropriate entry in that Annex I.

For substances belonging to more than one group of substances included in Annex I to Directive 67/548/EEC, the symbols, indications of danger, R- and S-phrases to be used for each substance shall be those shown in both the appropriate entries given in Annex I. In cases where two different classifications are given in the two entries for the same hazard, the classification reflecting the more severe hazard classification is used.

Note D:

Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Annex I to Directive 67/548/EEC.

However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the manufacturer or any person who places such a substance on the market must state on the label the name of the substance followed by the words “non-stabilised”.

Note E:

Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word “Also”.

Note H:

The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown. The requirements of Article 6 of Directive

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67/548/EEC on manufacturers, distributors, and importers of this substance apply to all other aspects of classification and labelling. The final label shall follow the requirements of Section 7 of Annex VI to Directive 67/548/EEC.

This note applies to certain coal- and oil-derived substances and to certain entries for groups of substances in Annex I to Directive 67/548/EEC.

Note S:

This substance may not require a label according to Article 23 of Directive 67/548/EEC (see Section 8 of Annex VI).

- (b) Note K is replaced by the following text:
Note K:

The classification as a carcinogen or mutagen 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). If the substance is not classified as a carcinogen or mutagen, at least the S-phrases (2-)9-16 should apply. This note applies to certain complex oil-derived substances in Annex I to Directive 67/548/EEC.

2. The list under heading 'Point 29 — Carcinogens: category 1' shall be amended as follows:

- (a) the following entries are inserted:

Substances	Index number	EC number	CAS number	Notes
'Triethyl arsenate	601-067-00-4	427-700-2	15606-95-8	
Gases (petroleum), catalytic cracked naphtha depropaniser 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.	649-062-00-6	270-755-0	68477-73-6	H, K

It consists of hydrocarbons having carbon numbers in the range of C ₂ through C ₄ , predominantly C ₃ .)				
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	H, K
Gases (petroleum), catalytic cracker, C ₁₋₅ -rich; Petroleum gas (A complex combination of hydrocarbons produced	649-064-00-7	270-757-1	68477-75-8	H, K

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by the distillation of products from a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C ₁ through C ₆ , predominantly C ₁ through C ₅ .)				
Gases (petroleum), catalytic polymerised naphtha stabiliser overhead, C ₂₋₄ -rich; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilisation of catalytic polymerised naphtha. It consists of aliphatic hydrocarbons having carbon numbers in the range of C ₂ through C ₆ , predominantly	649-065-00-2	270-758-7	68477-76-9	H, K

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C ₂ through C ₄ .)				
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	H, 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	649-067-00-3	270-765-5	68477-83-8	H, K

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are used as alkylation feed. Ambient temperatures normally exceed the critical temperature of these combinations.)				
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	H, K
Gases (petroleum), deethaniser overheads; Petroleum gas (A complex combination of hydrocarbons produced from distillation	649-069-00-4	270-768-1	68477-86-1	H, K

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of the gas and gasoline fractions from the catalytic cracking process. It contains predominantly ethane and ethylene.)				
Gases (petroleum), deisobutaniser 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	H, K
Gases (petroleum), depropaniser dry, propene-rich; Petroleum gas (A complex combination of hydrocarbons produced by the	649-071-00-5	270-772-3	68477-90-7	H, K

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distillation of products from the gas and gasoline fractions of a catalytic cracking process. It consists predominantly of propylene with some ethane and propane.)				
Gases (petroleum), depropaniser 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	H, K
Gases (petroleum), gas recovery plant depropaniser overheads; Petroleum gas	649-073-00-6	270-777-0	68477-94-1	H, K

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(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.)				
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	H, K
Gases (petroleum),	649-075-00-7	270-782-8	68477-99-6	H, K

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isomerised naphtha fractionator, C ₄ -rich, hydrogen sulfide-free; Petroleum gas				
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 C ₁ through C ₆ .)	649-076-00-2	270-802-5	68478-21-7	H, K
Tail gas (petroleum), catalytic cracked naphtha	649-077-00-8	270-803-0	68478-22-8	H, K

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<p>stabilisation absorber; Petroleum gas (A complex combination of hydrocarbons obtained from the stabilisation of catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₆.)</p>				
<p>Tail gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfuriser combined fractionater; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation of products from catalytic cracking, catalytic reforming and hydrodesulfurising processes</p>	<p>649-078-00-3</p>	<p>270-804-6</p>	<p>68478-24-0</p>	<p>H, K</p>

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treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)				
Tail gas (petroleum), catalytic reformed naphtha fractionation stabiliser; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilisation 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	H, K
Tail gas (petroleum), saturate gas plant mixed stream,	649-080-00-4	270-813-5	68478-32-0	H, K

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<p>C₄-rich; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilisation of straight- run naphtha, distillation tail gas and catalytic reformed naphtha stabiliser tail gas. It consists of hydrocarbons having carbon numbers in the range of C₃ through C₆, predominantly butane and isobutane.)</p>				
<p>Tail gas (petroleum), saturate gas recovery plant, C₁₋₂-rich; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation of distillate tail gas, straight-run naphtha, catalytic reformed</p>	<p>649-081-00- X</p>	<p>270-814-0</p>	<p>68478-33-1</p>	<p>H, K</p>

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naphtha stabiliser tail gas. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₁ through C ₅ , predominantly methane and ethane.)				
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 C ₁ through C ₅ .)	649-082-00-5	270-815-6	68478-34-2	H, K
Hydrocarbons, C ₃₋₄ -rich, petroleum distillate; Petroleum gas (A complex combination	649-083-00-0	270-990-9	68512-91-4	H, K

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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 .)				
Gases (petroleum), full-range straight-run naphtha dehexaniser 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	H, K
Gases (petroleum), hydrocracking depropaniser off;	649-085-00-1	271-001-3	68513-16-6	H, K

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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.)				
Gases (petroleum), light straight-run naphtha stabiliser off; Petroleum gas (A complex combination of hydrocarbons obtained by the stabilisation of light straight-run naphtha. It consists of saturated	649-086-00-7	271-002-9	68513-17-7	H, K

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aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₆ .)				
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.)	649-087-00-2	271-010-2	68513-66-6	H, K
Hydrocarbons, C ₁₋₄ ; Petroleum gas (A complex combination of hydrocarbons provided by thermal cracking and absorber	649-088-00-8	271-032-2	68514-31-8	H, K

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operations and by distillation of crude oil. 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.)				
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	649-089-00-3	271-038-5	68514-36-3	H, K

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-164 °C to -0,5 °C.)				
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.)	649-090-00-9	271-259-7	68527-16-2	H, K
Hydrocarbons, C ₁₋₄ , debutaniser fraction; Petroleum gas	649-091-00-4	271-261-8	68527-19-5	H, 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	649-092-00- X	271-624-0	68602-83-5	H, K

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in the range of C ₁ through C ₅ .)				
Hydrocarbons, C ₂₋₄ ; Petroleum gas	649-093-00-5	271-734-9	68606-25-7	H, K
Hydrocarbons, C ₃ ; Petroleum gas	649-094-00-0	271-735-4	68606-26-8	H, 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	H, K
Gases (petroleum), depropaniser bottoms fractionation off; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation of	649-096-00-1	271-742-2	68606-34-8	H, K

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depropaniser bottoms. It consists predominantly of butane, isobutane and butadiene.)				
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	H, 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	649-098-00-2	272-203-4	68783-64-2	H, K

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hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₅ .)				
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.)	649-099-00-8	272-205-5	68783-65-3	H, K
Gases (petroleum), crude oil	649-100-00-1	272-871-7	68918-99-0	H, K

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<p>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 C₁ through C₅.)</p>				
<p>Gases (petroleum), dehexaniser 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 C₁ through C₅.)</p>	<p>649-101-00-7</p>	<p>272-872-2</p>	<p>68919-00-6</p>	<p>H, K</p>

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Gases (petroleum), light straight run gasoline fractionation stabiliser 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	H, K
Gases (petroleum), naphtha unifiner desulfurisation stripper off; Petroleum gas (A complex combination of hydrocarbons produced by a naphtha unifiner desulfurisation process and stripped from the naphtha product. It consists of saturated aliphatic	649-103-00-8	272-879-0	68919-06-2	H, K

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hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)				
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	H, K
Gases (petroleum), fluidised catalytic cracker splitter overheads; Petroleum gas (A complex combination of hydrocarbons produced by the fractionation of the charge to the C ₃ -	649-105-00-9	272-893-7	68919-20-0	H, K

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C ₄ splitter. It consists predominantly of C ₃ hydrocarbons.)				
Gases (petroleum), straight-run stabiliser 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	H, K
Gases (petroleum), catalytic cracked naphtha debutaniser; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation of catalytic	649-107-00-X	273-169-3	68952-76-1	H, K

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cracked naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)				
Tail gas (petroleum), catalytic cracked distillate and naphtha stabiliser; 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	H, K
Tail gas (petroleum), thermal-cracked distillate, gas oil and naphtha absorber;	649-109-00-0	273-175-6	68952-81-8	H, K

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<p>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 C₁ through C₆.)</p>				
<p>Tail gas (petroleum), thermal cracked hydrocarbon fractionation stabiliser, petroleum coking; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilisation of thermal cracked hydrocarbons from a petroleum coking process. It consists of</p>	649-110-00-6	273-176-1	68952-82-9	H, K

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hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)				
Gases (petroleum), light steam-cracked, butadiene concentration; 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	H, K
Gases (petroleum), straight-run naphtha catalytic reformer stabiliser overhead; Petroleum gas (A complex combination of hydrocarbons obtained by the catalytic	649-112-00-7	273-270-2	68955-34-0	H, K

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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 C ₂ through C ₄ .)				
Hydrocarbons, C ₄ ; Petroleum gas	649-113-00-2	289-339-5	87741-01-3	H, K
Alkanes, C ₁₋₄ , C ₃ -rich; Petroleum gas	649-114-00-8	292-456-4	90622-55-2	H, 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	649-115-00-3	295-404-9	92045-22-2	H, K

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approximately -70 °C to 0 °C.)				
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.)	649-116-00-9	295-405-4	92045-23-3	H, K
Petroleum gases, liquefied, sweetened, C ₄ fraction; Petroleum gas (A complex combination of hydrocarbons	649-117-00-4	295-463-0	92045-80-2	H, K, S

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obtained by subjecting a liquefied petroleum gas mix to a sweetening process to oxidise mercaptans or to remove acidic impurities. It consists predominantly of C ₄ saturated and unsaturated hydrocarbons.)				
Raffinates (petroleum), steam-cracked C ₄ fraction cuprous ammonium acetate extraction, C ₃₋₅ and C ₃₋₅ unsaturated, butadiene-free; Petroleum gas	649-119-00-5	307-769-4	97722-19-5	H, 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,	649-120-00-0	270-746-1	68477-65-6	H, K

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hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ may also be present.)				
Gases (petroleum), benzene unit hydrodesulphuriser 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	H, K
Gases (petroleum), benzene unit recycle, hydrogen-rich; Refinery gas (A complex combination of	649-122-00-1	270-748-2	68477-67-8	H, K

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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 .)				
Gases (petroleum), blend oil, hydrogen-nitrogen-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	649-123-00-7	270-749-8	68477-68-9	H, K

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in the range of C ₁ through C ₅ .)				
Gases (petroleum), catalytic reformed naphtha stripper overheads; Refinery gas (A complex combination of hydrocarbons obtained from stabilisation 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	H, K
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	649-125-00-8	270-761-3	68477-80-5	H, K

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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 .)				
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	H, K
Gases (petroleum), C ₆₋₈ catalytic reformer recycle,	649-127-00-9	270-763-4	68477-82-7	H, K

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hydrogen-rich; Refinery gas				
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	H, K
Gases (petroleum), dry sour, gas-concentration-unit-off; Refinery gas (The complex combination of dry gases	649-129-00-X	270-774-4	68477-92-9	H, K

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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 .)				
Gases (petroleum), gas concentration reabsorber distillation; 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	H, K

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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	H, K
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 C ₂ hydrocarbons.)	649-132-00-6	270-780-7	68477-97-4	H, K
Gases (petroleum), hydrotreater blend oil	649-133-00-1	270-781-2	68477-98-5	H, K

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<p>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 C₁ through C₅.)</p>				
<p>Gases (petroleum), recycle, hydrogen- rich; Refinery gas (A complex combination obtained from recycled reactor gases. It consists primarily of hydrogen with various small amounts of carbon monoxide, carbon</p>	649-134-00-7	270-783-3	68478-00-2	H, K

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dioxide, nitrogen, hydrogen sulphide, and saturated aliphatic hydrocarbons having carbon numbers in the range of C ₁ through C ₅ .)				
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	H, K
Gases (petroleum), reforming hydrotreater; Refinery gas (A complex combination obtained from the	649-136-00-8	270-785-4	68478-02-4	H, K

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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 .)				
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	649-137-00-3	270-787-5	68478-03-5	H, K

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carbon numbers predominantly in the range of C ₂ through C ₅ .)				
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	H, K
Gases (petroleum), thermal cracking distillation; Refinery gas (A complex combination produced by distillation of products from a thermal	649-139-00-4	270-789-6	68478-05-7	H, K

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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 .)				
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	H, K
Tail gas (petroleum), catalytic	649-141-00-5	270-807-2	68478-27-3	H, K

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<p>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 C₁ through C₆.)</p>				
<p>Tail gas (petroleum), catalytic reformed naphtha stabiliser; Refinery gas (A complex combination of hydrocarbons obtained from the stabilisation of catalytic reformed naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the</p>	<p>649-142-00-0</p>	<p>270-808-8</p>	<p>68478-28-4</p>	<p>H, K</p>

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range of C ₁ through C ₆ .)				
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	H, K
Tail gas (petroleum), hydrodesulphurised straight-run naphtha separator; Refinery gas (A complex combination of hydrocarbons obtained from hydrodesulphurisation of straight-run naphtha. It consists of hydrogen	649-144-00-1	270-810-9	68478-30-8	H, K

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and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)				
Gases (petroleum), catalytic reformed straight-run naphtha stabiliser 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	H, K
Gases (petroleum), reformer effluent high-pressure flash drum off; Refinery gas (A complex combination produced by the high-pressure flashing of	649-146-00-2	271-003-4	68513-18-8	H, K

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the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.)				
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	H, K
Gases (petroleum), oil refinery gas distillation off; Refinery gas (A complex combination separated by distillation of a gas stream containing	649-148-00-3	271-258-1	68527-15-1	H, K

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<p>hydrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers in the range of C₁ through C₆ or obtained by cracking ethane and propane. It consists of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₂, hydrogen, nitrogen, and carbon monoxide.)</p>				
<p>Gases (petroleum), benzene unit hydrotreater depentaniser 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 depentanising. It consists primarily of hydrogen, ethane and</p>	<p>649-149-00-9</p>	<p>271-623-5</p>	<p>68602-82-4</p>	<p>H, K</p>

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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.)				
Gases (petroleum), secondary absorber off, fluidised catalytic cracker overheads fractionator; Refinery gas (A complex combination produced by the fractionation of the overhead products from the catalytic cracking process in the fluidised catalytic cracker. It consists of hydrogen, nitrogen, and hydrocarbons having carbon numbers	649-150-00-4	271-625-6	68602-84-6	H, K

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predominantly in the range of C ₁ through C ₃ .)				
Petroleum products, refinery gases; Refinery gas (A complex combination which consists primarily of hydrogen with various small amounts of methane, ethane and propane.)	649-151-00-X	271-750-6	68607-11-4	H, 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	H, K

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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	H, 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	H, K
Gases (petroleum), hydrotreated	649-155-00-1	272-775-5	68911-58-0	H, K

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<p>sour kerosine depentaniser stabiliser off; Refinery gas (The complex combination obtained from the depentaniser stabilisation 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 C₄ through C₅.)</p>				
<p>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</p>	<p>649-156-00-7</p>	<p>272-776-0</p>	<p>68911-59-1</p>	<p>H, K</p>

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of a catalyst. It consists primarily of hydrogen and methane with various small amounts of nitrogen, carbon monoxide, and hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₅ .)				
Gases (petroleum), distillate unifier desulphurisation stripper off; Refinery gas (A complex combination stripped from the liquid product of the unifier desulphurisation process. It consists of hydrogen sulphide, methane, ethane, and propane.)	649-157-00-2	272-873-8	68919-01-7	H, K
Gases (petroleum), fluidised catalytic cracker fractionation off; Refinery gas (A complex combination produced	649-158-00-8	272-874-3	68919-02-8	H, K

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by the fractionation of the overhead product of the fluidised 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 .)				
Gases (petroleum), fluidised catalytic cracker scrubbing secondary absorber off; Refinery gas (A complex combination produced by scrubbing the overhead gas from the fluidised catalytic cracker. It consists of hydrogen, nitrogen, methane, ethane and propane.)	649-159-00-3	272-875-9	68919-03-9	H, K
Gases (petroleum), heavy distillate hydrotreater desulphurisation	649-160-00-9	272-876-4	68919-04-0	H, K

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stripper off; Refinery gas (A complex combination stripped from the liquid product of the heavy distillate hydrotreater desulphurisation process. It consists of hydrogen, hydrogen sulphide, and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)				
Gases (petroleum), platformer stabiliser off, light ends fractionation; Refinery gas (A complex combination obtained by the fractionation of the light ends of the platinum reactors of the platformer unit. It consists of hydrogen, methane, ethane and propane.)	649-161-00-4	272-880-6	68919-07-3	H, K
Gases (petroleum),	649-162-00- X	272-881-1	68919-08-4	H, K

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preflash tower off, crude distillation; 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 .)				
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	H, K
Gases (petroleum), unifier	649-164-00-0	272-885-3	68919-12-0	H, K

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stripper off; Refinery gas (A combination of hydrogen and methane obtained by fractionation of the products from the unifiner unit.)				
Tail gas (petroleum), catalytic hydrodesulphurised naphtha separator; Refinery gas (A complex combination of hydrocarbons obtained from the hydrodesulphurisation of naphtha. It consists of hydrogen, methane, ethane, and propane.)	649-165-00-6	273-173-5	68952-79-4	H, K
Tail gas (petroleum), straight- run naphtha hydrodesulphuriser; Refinery gas (A complex combination obtained from the hydrodesulphurisation of straight- run naphtha. It consists of hydrogen and hydrocarbons having carbon	649-166-00-1	273-174-0	68952-80-7	H, K

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numbers predominantly in the range of C ₁ through C ₅ .)				
Gases (petroleum), sponge absorber off, fluidised catalytic cracker and gas oil desulphuriser overhead fractionation; Refinery gas (A complex combination obtained by the fractionation of products from the fluidised catalytic cracker and gas oil desulphuriser. 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	H, K
Gases (petroleum), crude distillation and catalytic cracking; Refinery gas (A complex combination produced by crude	649-168-00-2	273-563-5	68989-88-8	H, K

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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 C ₁ through C ₆ .)				
Gases (petroleum), gas oil diethanolamine scrubber off; Refinery gas (A complex combination produced by desulphurisation 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	H, K
Gases (petroleum), gas oil	649-170-00-3	295-398-8	92045-16-4	H, K

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<p>hydrodesulphurisation 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 C₁ through C₃.)</p>				
<p>Gases (petroleum), gas oil hydrodesulphurisation 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</p>	<p>649-171-00-9</p>	<p>295-399-3</p>	<p>92045-17-5</p>	<p>H, K</p>

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predominantly in the range of C ₁ through C ₄ .)				
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	H, K
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	649-173-00-X	295-401-2	92045-19-7	H, K

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<p>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 C₁ through C₅ with which natural gas may also be mixed.)</p>				
<p>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</p>	649-174-00-5	295-402-8	92045-20-0	H, K

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predominantly in the range of C ₁ through C ₅ .)				
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.)	649-177-00-1	268-629-5	68131-75-9	H, K
Tail gas (petroleum), catalytic cracked distillate and catalytic cracked naphtha fractionation absorber; Petroleum gas (The complex	649-178-00-7	269-617-2	68307-98-2	H, K

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<p>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 C₁ through C₄.)</p>				
<p>Tail gas (petroleum), catalytic polymerisation naphtha fractionation stabiliser; Petroleum gas (A complex combination of hydrocarbons from the fractionation stabilisation products from polymerisation of naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of</p>	<p>649-179-00-2</p>	<p>269-618-8</p>	<p>68307-99-3</p>	<p>H, K</p>

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C ₁ through C ₄ .)				
Tail gas (petroleum), catalytic reformed naphtha fractionation stabiliser, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation stabilisation 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	H, K
Tail gas (petroleum), cracked distillate hydrotreater stripper; Petroleum gas	649-181-00-3	269-620-9	68308-01-0	H, K

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<p>(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 C₁ through C₆.)</p>				
<p>Tail gas (petroleum), straight-run distillate hydrodesulphuriser, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons obtained from catalytic hydrodesulphurisation of straight run distillates and from which hydrogen sulphide has been removed by amine treatment.</p>	<p>649-182-00-9</p>	<p>269-630-3</p>	<p>68308-10-1</p>	<p>H, K</p>

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It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)				
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	H, K
Tail gas (petroleum), gas recovery plant; Petroleum gas (A complex combination of	649-184-00-X	269-624-0	68308-04-3	H, K

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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 .)				
Tail gas (petroleum), gas recovery plant deethaniser; 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	H, K
Tail gas (petroleum), hydrodesulphurised distillate and hydrodesulphurised	649-186-00-0	269-626-1	68308-06-5	H, K

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<p>naphtha fractionator, acid-free; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation of hydrodesulphurised naphtha and distillate hydrocarbon streams and treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₅.)</p>				
<p>Tail gas (petroleum), hydrodesulphurised vacuum gas oil stripper, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons obtained from stripping stabilisation of catalytic</p>	649-187-00-6	269-627-7	68308-07-6	H, K

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<p>hydrodesulphurised 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 C₁ through C₆.)</p>				
<p>Tail gas (petroleum), light straight-run naphtha stabiliser, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation stabilisation of light straight-run naphtha and from which hydrogen sulphide has been removed by amine treatment. It consists predominantly of</p>	<p>649-188-00-1</p>	<p>269-629-8</p>	<p>68308-09-8</p>	<p>H, K</p>

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hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)				
Tail gas (petroleum), propane-propylene alkylation feed prep deethaniser; 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	H, K
Tail gas (petroleum), vacuum gas oil hydrodesulphuriser, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons	649-190-00-2	269-632-4	68308-12-3	H, K

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<p>obtained from catalytic hydrodesulphurisation 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 C₁ through C₆.)</p>				
<p>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 C₃ through</p>	<p>649-191-00-8</p>	<p>270-071-2</p>	<p>68409-99-4</p>	<p>H, K</p>

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C ₅ and boiling in the range of approximately -48 °C to 32 °C.)				
Alkanes, C ₁₋₂ ; Petroleum gas	649-193-00-9	270-651-5	68475-57-0	H, K
Alkanes, C ₂₋₃ ; Petroleum gas	649-194-00-4	270-652-0	68475-58-1	H, K
Alkanes, C ₃₋₄ ; Petroleum gas	649-195-00-X	270-653-6	68475-59-2	H, K
Alkanes, C ₄₋₅ ; Petroleum gas	649-196-00-5	270-654-1	68475-60-5	H, 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	H, 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	649-198-00-6	270-670-9	68476-29-9	H, K

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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.)				
Hydrocarbons, C ₃₋₄ ; Petroleum gas	649-199-00-1	270-681-9	68476-40-4	H, K
Hydrocarbons, C ₄₋₅ ; Petroleum gas	649-200-00-5	270-682-4	68476-42-6	H, K
Hydrocarbons, C ₂₋₄ , C ₃ -rich; Petroleum gas	649-201-00-0	270-689-2	68476-49-3	H, 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	649-202-00-6	270-704-2	68476-85-7	H, K, S

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range of C ₃ through C ₇ and boiling in the range of approximately -40 °C to 80 °C.)				
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 °C to 80 °C.)	649-203-00-1	270-705-8	68476-86-8	H, K, S
Gases (petroleum), C ₃₋₄ , isobutane-rich;	649-204-00-7	270-724-1	68477-33-8	H, K

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<p>Petroleum gas (A complex combination of hydrocarbons from the distillation of saturated and unsaturated hydrocarbons usually ranging in carbon numbers from C₃ through C₆, predominantly butane and isobutane. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C₃ through C₄, predominantly isobutane.)</p>				
<p>Distillates (petroleum), C₃₋₆, piperylene-rich; Petroleum gas (A complex combination of hydrocarbons from the distillation of saturated and unsaturated aliphatic hydrocarbons usually ranging in the carbon</p>	<p>649-205-00-2</p>	<p>270-726-2</p>	<p>68477-35-0</p>	<p>H, K</p>

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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 piperlyenes.)				
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 C ₃ through C ₄ .)	649-206-00-8	270-750-3	68477-69-0	H, K
Gases (petroleum), C ₂₋₃ ; Petroleum gas (A complex combination of hydrocarbons produced by the	649-207-00-3	270-751-9	68477-70-3	H, K

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<p>distillation of products from a catalytic fractionation process. It contains predominantly ethane, ethylene, propane, and propylene.)</p>				
<p>Gases (petroleum), catalytic-cracked gas oil depropaniser bottoms, C₄-rich acid-free; 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 C₃ through C₅, predominantly C₄.)</p>	<p>649-208-00-9</p>	<p>270-752-4</p>	<p>68477-71-4</p>	<p>H, K</p>

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Gases (petroleum), catalytic-cracked naphtha debutaniser bottoms, C ₃₋₅ -rich; Petroleum gas (A complex combination of hydrocarbons obtained from the stabilisation 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	H, K
Tail gas (petroleum), isomerised naphtha fractionation stabiliser; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilisation products from isomerised naphtha. It consists predominantly	649-210-00-X	269-628-2	68308-08-7	H, K'

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of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)				
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- (b) the entries with index numbers 024-001-00-0, 601-020-00-8, 612-022-00-3 and 612-042-00-2 are replaced by the following:

Substances	Index number	EC number	CAS number	Notes
'Chromium (VI) trioxide	024-001-00-0	215-607-8	1333-82-0	E
Benzene	601-020-00-8	200-753-7	71-43-2	E
2-naphthylamine; beta-naphthylamine	612-022-00-3	202-080-4	91-59-8	E
Benzidine; 4,4'-diaminobiphenyl; biphenyl-4,4'-ylenediamine; 1,1'-biphenyl-4,4'-diamine	612-042-00-2	202-199-1	92-87-5	E'

3. The list under heading 'Point 29 — Carcinogens: category 2' shall be amended as follows:

- (a) the following entries are inserted:

Substances	Index number	EC number	CAS number	Notes
'Isobutyl nitrite	007-017-00-2	208-819-7	542-56-3	E
Cadmium sulphide	048-010-00-4	215-147-8	1306-23-6	E
Cadmium (pyrophoric)	048-011-00-X	231-152-8	7440-43-9	E
Isoprene (stabilised) 2-methyl-1,3-butadiene	601-014-00-5	201-143-3	78-79-5	D

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Chloroprene (stabilised) 2-chlorobuta-1,3-diene	602-036-00-8	204-818-0	126-99-8	D, E
1,2,3-trichloropropane	602-062-00-8	202-486-1	96-18-4	D
$\alpha, \alpha, \alpha, 4$ -tetrachlorotoluene p-chlorobenzotrichloride	602-093-00-9	226-009-1	5216-25-1	E
4,4'-bis(dimethylamino)benzophenone Michler's ketone	606-073-00-0	202-027-5	90-94-8	
Oxiranemethanol 4-methylbenzenesulfonate, (S)-	607-411-00-5 X	417-210-7	70987-78-9	
2-nitrotoluene	609-065-00-5	201-853-3	88-72-2	E
(Methylenebis(4-phenylenazo(1-(3-(dimethylamino)propyl)-1,2-dihydro-6-hydroxy-4-methyl-2-oxopyridine-5,3-diyl)))-1,1'-dipyridinium dichloride dihydrochloride	611-099-00-0	401-500-5	—	
Diaminotoluene technical product — mixture of (2) and (3) Methylphenylenediamine (1) 4-methyl-m-phenylene diamine (2) 2-methyl-m-phenylene diamine (3)	612-151-00-5	246-910-3 (1) 202-453-1 (2) 212-513-9 (3)	25376-45-8 (1) 95-80-7 (2) 823-40-5 (3)	E

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4-chloro-o-toluidine (1) 4-chloro-o-toluidine hydrochloride (2)	612-196-00-0	202-441-6 (1) 221-627-8 (2)	95-69-2 (1) 3165-93-3 (2)	E
2,4,5-trimethylaniline (1) 2,4,5-trimethylaniline hydrochloride (2)	612-197-00-6	205-282-0 (1)-(2)	137-17-7 (1) 21436-97-5 (2)	E
4,4'-thiodianiline (1) and its salts	612-198-00-1	205-370-9 (1)	139-65-1 (1)	E
4,4'-oxydianiline (1) and its salts p-aminophenyl ether (1)	612-199-00-7	202-977-0 (1)	101-80-4 (1)	E
2,4-diaminoanisole (1) 4-methoxy-m-phenylenediamine 2,4-diaminoanisole sulphate (2)	612-200-00-0	210-406-1 (1) 254-323-9 (2)	615-05-4 (1) 39156-41-7 (2)	
N,N,N',N'-tetramethyl-4,4'-methyldianiline	612-201-00-6	202-959-2	101-61-1	
C.I. Basic Violet 3 with $\geq 0,1$ % of Michler's ketone (EC No 202-027-5)	612-205-00-8	208-953-6	548-62-9	E
6-methoxy-m-toluidine p-cresidine	612-209-00-X	204-419-1	120-71-8	E
A mixture of 1,3,5-tris(3-aminomethylphenyl)-1,3,5-	613-199-00-X	421-550-1	—	

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(1H,3H,5H)- triazine-2,4,6- trione; a mixture of oligomers of 3,5-bis(3- aminomethylphenyl)-1- poly(3,5- bis(3- aminomethylphenyl)-2,4,6- trioxo-1,3,5- (1H,3H,5H)- triazin-1- yl)-1,3,5- (1H,3H,5H)- triazine-2,4,6- trione				
Creosote oil, acenaphthene fraction Wash oil	648-098-00- X	292-605-3	90640-84-9	H
Creosote oil	648-099-00-5	263-047-8	61789-28-4	H
Creosote	648-101-00-4	232-287-5	8001-58-9	H'

- (b) the entries with index numbers 007-008-00-3, 007-013-00-0, 016-023-00-4, 024-002-00-6, 024-003-00-1, 024-004-00-7, 024-004-01-4, 027-004-00-5, 027-005-00-0, 048-002-00-0, 048-006-00-2, 048-008-00-3, 048-009-00-9, 602-010-00-6, 602-073-00-X, 603-063-00-8, 605-020-00-9, 608-003-00-4, 609-007-00-9, 609-049-00-8, 611-001-00-6, 611-063-00-4, 612-035-00-4, 612-051-00-1, 612-077-00-3, 613-033-00-6, 648-043-00-X, 648-080-00-1, 648-100-00-9, 648-102-00-X, 648-138-00-6, 649-001-00-3, 649-002-00-9, 649-003-00-4, 649-004-00-X, 649-005-00-5 and 649-006-00-0 are replaced by the following:

Substances	Index number	EC number	CAS number	Notes
'Hydrazine	007-008-00-3	206-114-9	302-01-2	E
1,2- dimethylhydrazine	007-013-00-0	—	540-73-8	E
Dimethyl sulphate	016-023-00-4	201-058-1	77-78-1	E
Potassium dichromate	024-002-00-6	231-906-6	7778-50-9	E
Ammonium dichromate	024-003-00-1	232-143-1	7789-09-5	E
Sodium dichromate anhydrate	024-004-00-7	234-190-3	10588-01-9	E

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Sodium dichromate, dihydrate	024-004-01-4	234-190-3	7789-12-0	E
Cobalt dichloride	027-004-00-5	231-589-4	7646-79-9	E
Cobalt sulphate	027-005-00-0	233-334-2	10124-43-3	E
Cadmium oxide	048-002-00-0	215-146-2	1306-19-0	E
Cadmium fluoride	048-006-00-2	232-222-0	7790-79-6	E
Cadmium chloride	048-008-00-3	233-296-7	10108-64-2	E
Cadmium sulphate	048-009-00-9	233-331-6	10124-36-4	E
1,2-dibromoethane; ethylene dibromide	602-010-00-6	203-444-5	106-93-4	E
1,4-dichlorobut-2-ene	602-073-00-X	212-121-8	764-41-0	E
2,3-epoxypropan-1-ol; glycidol oxiranemethanol	603-063-00-8	209-128-3	556-52-5	E
5-allyl-1,3-benzodioxole; safrole	605-020-00-9	202-345-4	94-59-7	E
Acrylonitrile	608-003-00-4	203-466-5	107-13-1	D, E
2,4-dinitrotoluene; dinitrotoluene, technical grade (1); dinitrotoluene (2)	609-007-00-9	204-450-0 (1) 246-836-1 (2)	121-14-2 (1) 25321-14-6 (2)	E
2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2	E
Azobenzene	611-001-00-6	203-102-5	103-33-3	E
Trisodium-(4'-(8-acetylamino-3,6-disulfonato-2-	611-063-00-4	413-590-3	—	

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naphthylazo)-4''-(6-benzoylamino-3-sulfonato-2-naphthylazo)biphenyl-1,3',3'',1'''-tetraolato-O, O', O'', O''')copper(II)				
2-methoxyaniline; o-anisidine,	612-035-00-4	201-963-1	90-04-0	E
4,4'-diaminodiphenylmethane; 4,4'-methylenedianiline	612-051-00-1	202-974-4	101-77-9	E
N-nitrosodimethylamine; dimethylnitrosamine	612-077-00-3	200-549-8	62-75-9	E
2-methylaziridine; propyleneimine	613-033-00-6	200-878-7	75-55-8	E
Creosote oil, acenaphthene fraction, acenaphthene-free; Wash oil redistillate (The oil remaining after removal by a crystallisation 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	H
Residues (coal tar), creosote oil distillation; Wash oil redistillate	648-080-00-1	295-506-3	92061-93-3	H

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<p>(The residue from the fractional distillation of wash oil boiling in the approximate range of 270 °C to 330 °C. It consists predominantly of dinuclear aromatic and heterocyclic hydrocarbons.)</p>				
<p>Creosote oil, high-boiling distillate; Wash oil (The high-boiling distillation fraction obtained from the high temperature carbonisation 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</p>	<p>648-100-00-9</p>	<p>274-565-9</p>	<p>70321-79-8</p>	<p>H</p>

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approximately 5 °C.)				
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. It consists predominantly of biphenyl and isomeric diphenylnaphthalenes.)	648-102-00-X	310-189-4	122384-77-4	H
Creosote oil, low-boiling distillate; Wash oil (The low-boiling distillation fraction obtained from the high temperature carbonisation of bituminous coal, which is further refined to remove excess crystalline salts. It consists primarily of	648-138-00-6	274-566-4	70321-80-1	H

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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.)				
Extracts (petroleum), light naphthenic distillate solvent	649-001-00-3	265-102-1	64742-03-6	H
Extracts (petroleum), heavy paraffinic distillate solvent	649-002-00-9	265-103-7	64742-04-7	H
Extracts (petroleum), light paraffinic distillate solvent	649-003-00-4	265-104-2	6472-05-8	H
Extracts (petroleum), heavy naphthenic distillate solvent	649-004-00-X	265-111-0	64742-11-6	H
Extracts (petroleum), light vacuum gas oil solvent	649-005-00-5	295-341-7	91995-78-7	H
Hydrocarbons C ₂₆₋₅₅ , aromatic-rich	649-006-00-0	307-753-7	97722-04-8	H'

- (c) in the entry with index number 611-063-00-4, the number '164058-22-4' is inserted in the column entitled 'CAS number';

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- (d) the entries with index numbers 649-062-00-6, 649-063-00-1, 649-064-00-7, 649-065-00-2, 649-066-00-8, 649-067-00-3, 649-068-00-9, 649-069-00-4, 649-070-00-X, 649-071-00-5, 649-072-00-0, 649-073-00-6, 649-074-00-1, 649-075-00-7, 649-076-00-2, 649-077-00-8, 649-078-00-3, 649-079-00-9, 649-080-00-4, 649-081-00-X, 649-082-00-5, 649-083-00-0, 649-084-00-6, 649-085-00-1, 649-086-00-7, 649-087-00-2, 649-089-00-3, 649-090-00-9, 649-091-00-4, 649-092-00-X, 649-093-00-5, 649-094-00-0, 649-095-00-6, 649-096-00-1, 649-097-00-7, 649-098-00-2, 649-099-00-8, 649-100-00-1, 649-101-00-7, 649-102-00-2, 649-103-00-8, 649-104-00-3, 649-105-00-9, 649-106-00-4, 649-107-00-X, 649-108-00-5, 649-109-00-0, 649-110-00-6, 649-111-00-1, 649-112-00-7, 649-113-00-2, 649-114-00-8, 649-115-00-3, 649-116-00-9, 649-117-00-4, 649-119-00-5, 649-120-00-0, 649-121-00-6, 649-122-00-1, 649-123-00-7, 649-124-00-2, 649-125-00-8, 649-126-00-3, 649-127-00-9, 649-128-00-4, 649-129-00-X, 649-130-00-5, 649-131-00-0, 649-132-00-6, 649-133-00-1, 649-134-00-7, 649-135-00-2, 649-136-00-8, 649-137-00-3, 649-138-00-9, 649-139-00-4, 649-140-00-X, 649-141-00-5, 649-142-00-0, 649-143-00-6, 649-144-00-1, 649-145-00-7, 649-146-00-2, 649-147-00-8, 649-148-00-3, 649-149-00-9, 649-150-00-4, 649-151-0-X, 649-152-00-5, 649-153-00-0, 649-154-00-6, 649-155-00-1, 649-156-00-7, 649-157-00-2, 649-158-00-8, 649-159-00-3, 649-160-00-9, 649-161-00-4, 649-162-00-X, 649-163-00-5, 649-164-00-0, 649-165-00-6, 649-166-00-1, 649-167-00-7, 649-168-00-2, 649-169-00-8, 649-170-00-3, 649-171-00-9, 649-172-00-4, 649-173-00-X, 649-174-00-5, 649-177-00-1, 649-178-00-7, 649-179-00-2, 649-180-00-8, 649-181-00-3, 649-182-00-9, 649-183-00-4, 649-184-00-X, 649-185-00-5, 649-186-00-0, 649-187-00-6, 649-188-00-1, 649-189-00-7, 649-190-00-2, 649-191-00-8, 649-193-00-9, 649-194-00-4, 649-195-00-X, 649-196-00-5, 649-197-00-0, 649-198-00-6, 649-199-00-1, 649-200-00-5, 649-201-00-0, 649-202-00-6, 649-203-00-1, 649-204-00-7, 649-205-00-2, 649-206-00-8, 649-207-00-3, 649-208-00-9, 649-209-00-4 and 649-210-00-X are deleted.

4. The list under heading ‘Point 30 — Mutagens: category 2’ shall be amended as follows:

- (a) the following entries are inserted:

Substances	Index number	EC number	CAS number	Notes
‘Chromium (VI) trioxide	024-001-00-0	215-607-8	1333-82-0	E
Cadmium sulphate	048-009-00-9	233-331-6	10124-36-4	E
Benzene	601-020-00-8	200-753-7	71-43-2	E
2-nitrotoluene	609-065-00-5	201-853-3	88-72-2	E
4,4’-oxydianiline (1) and its salts;	612-199-00-7	202-977-0 (1)	101-80-4 (1)	E

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p-aminophenyl ether (1)				
Carbendazim (ISO); methyl benzimidazol-2-ylcarbamate	613-048-00-8	234-232-0	10605-21-7	
Benomyl (ISO); methyl 1-(butylcarbamoyl)benzimidazol-2-ylcarbamate	613-049-00-3	241-775-7	17804-35-2	
Gases (petroleum), catalytic cracked naphtha depropaniser 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	H, K
Gases (petroleum),	649-063-00-1	270-756-6	68477-74-7	H, K

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<p>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 C₁ through C₆.)</p>				
<p>Gases (petroleum), catalytic cracker, C₁₋₅-rich; Petroleum gas (A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers</p>	649-064-00-7	270-757-1	68477-75-8	H, K

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in the range of C ₁ through C ₆ , predominantly C ₁ through C ₅ .)				
Gases (petroleum), catalytic polymerised naphtha stabiliser overhead, C ₂₋₄ -rich; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilisation of catalytic polymerised 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	H, K
Gases (petroleum), catalytic reformer, C ₁₋₄ -rich; Petroleum gas (A complex combination of hydrocarbons produced by	649-066-00-8	270-760-8	68477-79-2	H, K

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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 .)				
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	H, K
Gases (petroleum), C ₄ -rich;	649-068-00-9	270-767-6	68477-85-0	H, K

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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 .)				
Gases (petroleum), deethaniser 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	H, K
Gases (petroleum), deisobutaniser	649-070-00-X	270-769-7	68477-87-2	H, K

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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 .)				
Gases (petroleum), depropaniser 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	H, K

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<p>Gases (petroleum), depropaniser 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 C₂ through C₄.)</p>	<p>649-072-00-0</p>	<p>270-773-9</p>	<p>68477-91-8</p>	<p>H, K</p>
<p>Gases (petroleum), gas recovery plant depropaniser overheads; Petroleum gas (A complex combination of hydrocarbons obtained by fractionation of miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having</p>	<p>649-073-00-6</p>	<p>270-777-0</p>	<p>68477-94-1</p>	<p>H, K</p>

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carbon numbers in the range of C ₁ through C ₄ , predominantly propane.)				
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	H, K
Gases (petroleum), isomerised naphtha fractionator, C ₄ -rich, hydrogen sulfide-free; Petroleum gas	649-075-00-7	270-782-8	68477-99-6	H, K
Tail gas (petroleum), catalytic cracked clarified oil and thermal cracked	649-076-00-2	270-802-5	68478-21-7	H, K

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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 C ₁ through C ₆ .)				
Tail gas (petroleum), catalytic cracked naphtha stabilisation absorber; Petroleum gas (A complex combination of hydrocarbons obtained from the stabilisation of catalytic cracked naphtha. It consists predominantly	649-077-00-8	270-803-0	68478-22-8	H, K

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of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)				
Tail gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfuriser combined fractionater; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation of products from catalytic cracking, catalytic reforming and hydrodesulfurising 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	H, K

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<p>Tail gas (petroleum), catalytic reformed naphtha fractionation stabiliser; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilisation of catalytic reformed naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₄.)</p>	<p>649-079-00-9</p>	<p>270-806-7</p>	<p>68478-26-2</p>	<p>H, K</p>
<p>Tail gas (petroleum), saturate gas plant mixed stream, C₄-rich; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilisation of straight-run naphtha, distillation tail gas and catalytic</p>	<p>649-080-00-4</p>	<p>270-813-5</p>	<p>68478-32-0</p>	<p>H, K</p>

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reformed naphtha stabiliser tail gas. It consists of hydrocarbons having carbon numbers in the range of C ₃ through C ₆ , predominantly butane and isobutene.)				
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 stabiliser 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	H, K

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<p>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 C₁ through C₅.)</p>	<p>649-082-00-5</p>	<p>270-815-6</p>	<p>68478-34-2</p>	<p>H, K</p>
<p>Hydrocarbons, C₃₋₄-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 C₃ through C₅, predominantly</p>	<p>649-083-00-0</p>	<p>270-990-9</p>	<p>68512-91-4</p>	<p>H, K</p>

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C ₃ through C ₄ .)				
Gases (petroleum), full-range straight-run naphtha dehexaniser 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	H, K
Gases (petroleum), hydrocracking depropaniser off, hydrocarbon-rich; Petroleum gas (A complex combination of hydrocarbon produced by the distillation of products from a hydrocracking process.	649-085-00-1	271-001-3	68513-16-6	H, K

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<p>It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₄. It may also contain small amounts of hydrogen and hydrogen sulfide.)</p>				
<p>Gases (petroleum), light straight-run naphtha stabiliser off; Petroleum gas (A complex combination of hydrocarbons obtained by the stabilisation of light straight-run naphtha. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C₂ through C₆.)</p>	649-086-00-7	271-002-9	68513-17-7	H, K
<p>Residues (petroleum), alkylation splitter, C₄-rich;</p>	649-087-00-2	271-010-2	68513-66-6	H, K

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<p>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 C₄ through C₅, predominantly butane, and boiling in the range of approximately -11,7 °C to 27,8 °C.)</p>				
<p>Hydrocarbons, C₁₋₄; Petroleum gas (A complex combination of hydrocarbons provided by thermal cracking and absorber operations and by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₄ and boiling in</p>	649-088-00-8	271-032-2	68514-31-8	H, K

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the range of approximately -164 °C to -0,5 °C.)				
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.)	649-089-00-3	271-038-5	68514-36-3	H, K
Hydrocarbons, C ₁₋₃ ; Petroleum gas (A complex combination of hydrocarbons having carbon numbers predominantly	649-090-00-9	271-259-7	68527-16-2	H, K

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in the range of C ₁ through C ₃ and boiling in the range of approximately -164 °C to -42 °C.)				
Hydrocarbons, C ₁₋₄ , debutaniser fraction; Petroleum gas	649-091-00-4	271-261-8	68527-19-5	H, 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	H, K
Hydrocarbons, C ₂₋₄ ; Petroleum gas	649-093-00-5	271-734-9	68606-25-7	H, K
Hydrocarbons, C ₃ ; Petroleum gas	649-094-00-0	271-735-4	68606-26-8	H, K

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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	H, K
Gases (petroleum), depropaniser bottoms fractionation off; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation of depropaniser bottoms. It consists predominantly of butane, isobutane and butadiene.)	649-096-00-1	271-742-2	68606-34-8	H, K
Gases (petroleum), refinery blend;	649-097-00-7	272-183-7	68783-07-3	H, K

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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 .)				
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	H, K
Gases (petroleum), C ₂₋₄ ,	649-099-00-8	272-205-5	68783-65-3	H, K

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<p>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 C₂ through C₄ and boiling in the range of approximately -51 °C to -34 °C.)</p>				
<p>Gases (petroleum), crude oil fractionation off; Petroleum gas (A complex combination of hydrocarbons produced by the fractionation of crude oil.</p>	<p>649-100-00-1</p>	<p>272-871-7</p>	<p>68918-99-0</p>	<p>H, K</p>

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It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)				
Gases (petroleum), dehexaniser 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	H, K
Gases (petroleum), light straight run gasoline fractionation stabiliser off; Petroleum gas (A complex combination of hydrocarbons obtained	649-102-00-2	272-878-5	68919-05-1	H, K

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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 .)				
Gases (petroleum), naphtha unrefined desulfurisation stripper off; Petroleum gas (A complex combination of hydrocarbons produced by a naphtha unrefined desulfurisation 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	H, K
Gases (petroleum), straight-run naphtha	649-104-00-3	272-882-7	68919-09-5	H, K

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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.)				
Gases (petroleum), fluidised 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	H, K
Gases (petroleum), straight-run stabiliser off; Petroleum gas	649-106-00-4	272-883-2	68919-10-8	H, K

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<p>(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 C₁ through C₄.)</p>				
<p>Gases (petroleum), catalytic cracked naphtha debutaniser; 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 C₁ through C₄.)</p>	<p>649-107-00-X</p>	<p>273-169-3</p>	<p>68952-76-1</p>	<p>H, K</p>

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Tail gas (petroleum), catalytic cracked distillate and naphtha stabiliser; 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	H, K
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	649-109-00-0	273-175-6	68952-81-8	H, K

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and gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)				
Tail gas (petroleum), thermal cracked hydrocarbon fractionation stabiliser, petroleum coking; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilisation 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	H, K
Gases (petroleum), light steam-cracked,	649-111-00-1	273-265-5	68955-28-2	H, K

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<p>butadiene concentration; 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 C₄.)</p>				
<p>Gases (petroleum), straight-run naphtha catalytic reformer stabiliser 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</p>	649-112-00-7	273-270-2	68955-34-0	H, K

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numbers predominantly in the range of C ₂ through C ₄ .)				
Hydrocarbons, C ₄ ; Petroleum gas	649-113-00-2	289-339-5	87741-01-3	H, K
Alkanes, C ₁₋₄ , C ₃ -rich; Petroleum gas	649-114-00-8	292-456-4	90622-55-2	H, 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.)	649-115-00-3	295-404-9	92045-22-2	H, K
Hydrocarbons, C ₄ , steam-cracker distillate; Petroleum gas (A complex combination of	649-116-00-9	295-405-4	92045-23-3	H, K

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<p>hydrocarbons produced by the distillation of the products of a steam cracking process. It consists predominantly of hydrocarbons having a carbon number of C₄, predominantly 1-butene and 2-butene, containing also butane and isobutene and boiling in the range of approximately -12 °C to 5 °C.)</p>				
<p>Petroleum gases, liquefied, sweetened, C₄ fraction; Petroleum gas (A complex combination of hydrocarbons obtained by subjecting a liquefied petroleum gas mix to a sweetening process to oxidise mercaptans or to remove acidic impurities. It consists</p>	649-117-00-4	295-463-0	92045-80-2	H, K, S

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predominantly of C ₄ saturated and unsaturated hydrocarbons.)				
Raffinates (petroleum), steam-cracked C ₄ fraction cuprous ammonium acetate extrn., C ₃₋₅ and C ₃₋₅ unsaturated, butadiene-free; Petroleum gas	649-119-00-5	307-769-4	97722-19-5	H, 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	H, K

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Gases (petroleum), benzene unit hydrodesulphuriser 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	H, 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	649-122-00-1	270-748-2	68477-67-8	H, K

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hydrocarbons having carbon numbers in the range of C ₁ through C ₆ .)				
Gases (petroleum), blend oil, hydrogen-nitrogen-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	H, K
Gases (petroleum), catalytic reformed naphtha stripper overheads; Refinery gas (A complex combination	649-124-00-2	270-759-2	68477-77-0	H, K

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of hydrocarbons obtained from stabilisation of catalytic reformed naphtha. It consists of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)				
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	649-125-00-8	270-761-3	68477-80-5	H, K

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having carbon numbers predominantly in the range of C ₁ through C ₆ .)				
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	H, K
Gases (petroleum), C ₆₋₈ catalytic reformer recycle, hydrogen-rich; Refinery gas	649-127-00-9	270-763-4	68477-82-7	H, K
Gases (petroleum), C ₂ -return stream; Refinery gas (A complex combination of hydrocarbons obtained by the	649-128-00-4	270-766-0	68477-84-9	H, K

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<p>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.)</p>				
<p>Gases (petroleum), dry sour, gas-concentration-unit-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</p>	649-129-00-X	270-774-4	68477-92-9	H, K

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range of C ₁ through C ₃ .)				
Gases (petroleum), gas concentration reabsorber distillation; 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	H, K
Gases (petroleum), hydrogen absorber off; Refinery gas (A complex combination obtained by absorbing hydrogen from a hydrogen	649-131-00-0	270-779-1	68477-96-3	H, K

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rich stream. It consists of hydrogen, carbon monoxide, nitrogen, and methane with small amounts of C ₂ hydrocarbons.)				
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 C ₂ hydrocarbons.)	649-132-00-6	270-780-7	68477-97-4	H, K
Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas (A complex combination obtained from recycled hydrotreated blend oil. It consists	649-133-00-1	270-781-2	68477-98-5	H, K

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<p>primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C₁ through C₅.)</p>				
<p>Gases (petroleum), recycle, hydrogen-rich; 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 C₁ through C₅.)</p>	<p>649-134-00-7</p>	<p>270-783-3</p>	<p>68478-00-2</p>	<p>H, K</p>

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<p>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 C₁ through C₅.)</p>	649-135-00-2	270-784-9	68478-01-3	H, K
<p>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</p>	649-136-00-8	270-785-4	68478-02-4	H, K

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having carbon numbers predominantly in the range C ₃ through C ₅ .)				
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	H, K
Gases (petroleum), reforming hydrotreater make-up, hydrogen-	649-138-00-9	270-788-0	68478-04-6	H, K

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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 .)				
Gases (petroleum), thermal cracking distillation; 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	649-139-00-4	270-789-6	68478-05-7	H, K

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numbers predominantly in the range of C ₁ through C ₆ .)				
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	H, K
Tail gas (petroleum), catalytic reformed naphtha separator; Refinery gas (A complex combination of hydrocarbons obtained from the catalytic reforming of straight-	649-141-00-5	270-807-2	68478-27-3	H, K

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run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)				
Tail gas (petroleum), catalytic reformed naphtha stabiliser; Refinery gas (A complex combination of hydrocarbons obtained from the stabilisation 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	H, K
Tail gas (petroleum), cracked distillate hydrotreater separator; Refinery gas (A complex combination of hydrocarbons	649-143-00-6	270-809-3	68478-29-5	H, K

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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 .)				
Tail gas (petroleum), hydrodesulphurised straight-run naphtha separator; Refinery gas (A complex combination of hydrocarbons obtained from hydrodesulphurisation 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	H, K
Gases (petroleum), catalytic	649-145-00-7	270-999-8	68513-14-4	H, K

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reformed straight-run naphtha stabiliser 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.)				
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	H, K

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<p>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.)</p>	649-147-00-8	271-005-5	68513-19-9	H, K
<p>Gases (petroleum), oil refinery gas distillation 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 C₁ through C₆ or obtained</p>	649-148-00-3	271-258-1	68527-15-1	H, K

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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.)				
Gases (petroleum), benzene unit hydrotreater depentaniser 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 depentanising. It consists primarily of hydrogen, ethane and propane with various small amounts of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly	649-149-00-9	271-623-5	68602-82-4	H, K

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in the range of C ₁ through C ₆ . It may contain trace amounts of benzene.)				
Gases (petroleum), secondary absorber off, fluidised catalytic cracker overheads fractionator; Refinery gas (A complex combination produced by the fractionation of the overhead products from the catalytic cracking process in the fluidised 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	H, K
Petroleum products, refinery gases; Refinery gas (A complex combination which	649-151-00-X	271-750-6	68607-11-4	H, K

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consists primarily of hydrogen with various small amounts of methane, ethane and propane.)				
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	H, K
Gases (petroleum), refinery; Refinery gas (A complex combination obtained from various petroleum refining operations. It consists of hydrogen and	649-153-00-0	272-338-9	68814-67-5	H, K

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hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .)				
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	H, K
Gases (petroleum), hydrotreated sour kerosine depentaniser stabiliser off; Refinery gas (The complex combination obtained from the depentaniser stabilisation of hydrotreated kerosine.	649-155-00-1	272-775-5	68911-58-0	H, K

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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 .)				
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 hydrocarbons having	649-156-00-7	272-776-0	68911-59-1	H, K

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carbon numbers predominantly in the range of C ₂ through C ₅ .)				
Gases (petroleum), distillate unfiner desulphurisation stripper off; Refinery gas (A complex combination stripped from the liquid product of the unfiner desulphurisation process. It consists of hydrogen sulphide, methane, ethane, and propane.)	649-157-00-2	272-873-8	68919-01-7	H, K
Gases (petroleum), fluidised catalytic cracker fractionation off; Refinery gas (A complex combination produced by the fractionation of the overhead product of the fluidised catalytic cracking process. It consists of hydrogen, hydrogen sulphide, nitrogen, and	649-158-00-8	272-874-3	68919-02-8	H, K

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hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)				
Gases (petroleum), fluidised catalytic cracker scrubbing secondary absorber off; Refinery gas (A complex combination produced by scrubbing the overhead gas from the fluidised catalytic cracker. It consists of hydrogen, nitrogen, methane, ethane and propane.)	649-159-00-3	272-875-9	68919-03-9	H, K
Gases (petroleum), heavy distillate hydrotreater desulphurisation stripper off; Refinery gas (A complex combination stripped from the liquid product of the heavy distillate hydrotreater desulphurisation process. It consists of hydrogen,	649-160-00-9	272-876-4	68919-04-0	H, K

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hydrogen sulphide, and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)				
Gases (petroleum), platformer stabiliser off, light ends fractionation; Refinery gas (A complex combination obtained by the fractionation of the light ends of the platinum reactors of the platformer unit. It consists of hydrogen, methane, ethane and propane.)	649-161-00-4	272-880-6	68919-07-3	H, K
Gases (petroleum), preflash tower off, crude distillation; Refinery gas (A complex combination produced from the first tower used in the distillation of crude oil. It consists	649-162-00-X	272-881-1	68919-08-4	H, K

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of nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)				
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	H, K
Gases (petroleum), unifier stripper off; Refinery gas (A combination of hydrogen and methane obtained by fractionation of the products from the unifier unit.)	649-164-00-0	272-885-3	68919-12-0	H, K

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Tail gas (petroleum), catalytic hydrodesulphurised naphtha separator; Refinery gas (A complex combination of hydrocarbons obtained from the hydrodesulphurisation of naphtha. It consists of hydrogen, methane, ethane, and propane.)	649-165-00-6	273-173-5	68952-79-4	H, K
Tail gas (petroleum), straight-run naphtha hydrodesulphuriser; Refinery gas (A complex combination obtained from the hydrodesulphurisation 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	H, K
Gases (petroleum), sponge absorber off, fluidised catalytic cracker	649-167-00-7	273-269-7	68955-33-9	H, K

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and gas oil desulphuriser overhead fractionation; Refinery gas (A complex combination obtained by the fractionation of products from the fluidised catalytic cracker and gas oil desulphuriser. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)				
Gases (petroleum), crude distillation 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	649-168-00-2	273-563-5	68989-88-8	H, K

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and olefinic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)				
Gases (petroleum), gas oil diethanolamine scrubber off; Refinery gas (A complex combination produced by desulphurisation 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	H, K
Gases (petroleum), gas oil hydrodesulphurisation effluent; Refinery gas (A complex combination obtained by separation of the liquid phase from the effluent from the hydrogenation reaction.	649-170-00-3	295-398-8	92045-16-4	H, K

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It consists predominantly of hydrogen, hydrogen sulphide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .)				
Gases (petroleum), gas oil hydrodesulphurisation 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	H, K
Gases (petroleum), hydrogenator effluent flash drum off; Refinery gas (A complex combination	649-172-00-4	295-400-7	92045-18-6	H, K

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<p>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 C₁ through C₆.)</p>				
<p>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</p>	<p>649-173-00-X</p>	<p>295-401-2</p>	<p>92045-19-7</p>	<p>H, K</p>

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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.)				
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	H, K
Gases (petroleum), C ₃₋₄ ; Petroleum gas (A complex combination of	649-177-00-1	268-629-5	68131-75-9	H, K

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<p>hydrocarbons produced by distillation of products from the cracking of crude oil. It consists of hydrocarbons having carbon numbers in the range of C₃ through C₄, predominantly of propane and propylene, and boiling in the range of approximately -51 °C to -1 °C.)</p>				
<p>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.</p>	<p>649-178-00-7</p>	<p>269-617-2</p>	<p>68307-98-2</p>	<p>H, K</p>

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It consists predominantly of hydrocarbons having carbon numbers in the range of C ₁ through C ₄ .)				
Tail gas (petroleum), catalytic polymerisation naphtha fractionation stabiliser; Petroleum gas (A complex combination of hydrocarbons from the fractionation stabilisation products from polymerisation 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	H, K
Tail gas (petroleum), catalytic reformed naphtha fractionation stabiliser, hydrogen sulphide-free;	649-180-00-8	269-619-3	68308-00-9	H, K

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<p>Petroleum gas (A complex combination of hydrocarbons obtained from fractionation stabilisation 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 C₁ through C₄.)</p>				
<p>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.</p>	<p>649-181-00-3</p>	<p>269-620-9</p>	<p>68308-01-0</p>	<p>H, K</p>

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It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)				
Tail gas (petroleum), straight-run distillate hydrodesulphuriser, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons obtained from catalytic hydrodesulphurisation 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	H, K

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<p>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 C₁ through C₅.)</p>	<p>649-183-00-4</p>	<p>269-623-5</p>	<p>68308-03-2</p>	<p>H, K</p>
<p>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</p>	<p>649-184-00-X</p>	<p>269-624-0</p>	<p>68308-04-3</p>	<p>H, K</p>

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having carbon numbers predominantly in the range of C ₁ through C ₅ .)				
Tail gas (petroleum), gas recovery plant deethaniser; 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	H, K
Tail gas (petroleum), hydrodesulphurised distillate and hydrodesulphurised naphtha fractionator, acid-free; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation	649-186-00-0	269-626-1	68308-06-5	H, K

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<p>of hydrodesulphurised naphtha and distillate hydrocarbon streams and treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₅.)</p>				
<p>Tail gas (petroleum), hydrodesulphurised vacuum gas oil stripper, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons obtained from stripping stabilisation of catalytic hydrodesulphurised vacuum gas oil and from which hydrogen sulphide has been removed by amine treatment. It consists predominantly</p>	<p>649-187-00-6</p>	<p>269-627-7</p>	<p>68308-07-6</p>	<p>H, K</p>

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of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)				
Tail gas (petroleum), light straight-run naphtha stabiliser, hydrogen sulphide-free; Petroleum gas (A complex combination of hydrocarbons obtained from fractionation stabilisation 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	H, K
Tail gas (petroleum), propane-	649-189-00-7	269-631-9	68308-11-2	H, K

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<p>propylene alkylation feed prep deethaniser; 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 C₁ through C₄.)</p>				
<p>Tail gas (petroleum), vacuum gas oil hydrodesulphuriser, hydrogen sulphide- free; Petroleum gas (A complex combination of hydrocarbons obtained from catalytic hydrodesulphurisation of vacuum gas oil and from which hydrogen sulphide has been removed by amine</p>	<p>649-190-00-2</p>	<p>269-632-4</p>	<p>68308-12-3</p>	<p>H, K</p>

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treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)				
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.)	649-191-00-8	270-071-2	68409-99-4	H, K
Alkanes, C ₁₋₂ ; Petroleum gas	649-193-00-9	270-651-5	68475-57-0	H, K

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Alkanes, C ₂₋₃ ; Petroleum gas	649-194-00-4	270-652-0	68475-58-1	H, K
Alkanes, C ₃₋₄ ; Petroleum gas	649-195-00- X	270-653-6	68475-59-2	H, K
Alkanes, C ₄₋₅ ; Petroleum gas	649-196-00-5	270-654-1	68475-60-5	H, 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	H, 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	649-198-00-6	270-670-9	68476-29-9	H, K

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C ₁ through C ₄ and boiling in the range of approximately -217 °C to -12 °C.)				
Hydrocarbons, C ₃₋₄ ; Petroleum gas	649-199-00-1	270-681-9	68476-40-4	H, K
Hydrocarbons, C ₄₋₅ ; Petroleum gas	649-200-00-5	270-682-4	68476-42-6	H, K
Hydrocarbons, C ₂₋₄ , C ₃ -rich; Petroleum gas	649-201-00-0	270-689-2	68476-49-3	H, 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.)	649-202-00-6	270-704-2	68476-85-7	H, K, S
Petroleum gases, liquefied,	649-203-00-1	270-705-8	68476-86-8	H, K, S

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<p>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 C₃ through C₇ and boiling in the range of approximately -40 °C to 80 °C.)</p>				
<p>Gases (petroleum), C₃₋₄, isobutane-rich; Petroleum gas (A complex combination of hydrocarbons from the distillation of saturated and unsaturated hydrocarbons usually ranging</p>	<p>649-204-00-7</p>	<p>270-724-1</p>	<p>68477-33-8</p>	<p>H, K</p>

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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.)				
Distillates (petroleum), C ₃₋₆ , piperylene-rich; 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 ,	649-205-00-2	270-726-2	68477-35-0	H, K

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predominantly piperlyenes.)				
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 C ₃ through C ₄ .)	649-206-00-8	270-750-3	68477-69-0	H, 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	H, K

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<p>Gases (petroleum), catalytic-cracked gas oil depropaniser bottoms, C₄-rich acid-free; 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 C₃ through C₅, predominantly C₄.)</p>	649-208-00-9	270-752-4	68477-71-4	H, K
<p>Gases (petroleum), catalytic-cracked naphtha debutaniser bottoms, C₃₋₅-rich; Petroleum gas (A complex combination of</p>	649-209-00-4	270-754-5	68477-72-5	H, K

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hydrocarbons obtained from the stabilisation of catalytic cracked naphtha. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₅ .)				
Tail gas (petroleum), isomerised naphtha fractionation stabiliser; Petroleum gas (A complex combination of hydrocarbons obtained from the fractionation stabilisation products from isomerised naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .)	649-210-00-X	269-628-2	68308-08-7	H, K'

- (b) the entries with index numbers 024-002-00-6, 024-003-00-1, 024-004-00-7, 024-00401-4, 048-006-00-2 and 048-008-00-3 are replaced by the following:

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Substances	Index number	EC number	CAS number	Notes
‘Potassium dichromate	024-002-00-6	231-906-6	7778-50-9	E
Ammonium dichromate	024-003-00-1	232-143-1	7789-09-5	E
Sodium dichromate anhydrate	024-004-00-7	234-190-3	10588-01-9	E
Sodium dichromate, dihydrate	024-004-01-4	234-190-3	7789-12-0	E
Cadmium fluoride	048-006-00-2	232-222-0	7790-79-6	E
Cadmium chloride	048-008-00-3	233-296-7	10108-64-2	E’

5. In the list under heading ‘Point 31 — Toxic to reproduction: category 1’, the entries with index numbers 082-001-00-6 and 082-002-00-1 shall be replaced by the following:

Substances	Index number	EC number	CAS number	Notes
‘Lead compounds with the exception of those specified elsewhere in this Annex	082-001-00-6	—	—	A, E
Lead alkyls	082-002-00-1	—	—	A, E’

6. The list under heading ‘Point 31 — Toxic to reproduction: category 2’ shall be amended as follows:

- (a) the following entries are inserted:

Substances	Index number	EC number	CAS number	Notes
‘Linuron (ISO); 3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea	006-021-00-1	206-356-5	330-55-2	E
Potassium dichromate	024-002-00-6	231-906-6	7778-50-9	E

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Ammonium dichromate	024-003-00-1	232-143-1	7789-09-5	E
Sodium dichromate, anhydrate	024-004-00-7	234-190-3	10588-01-9	E
Sodium dichromate, dihydrate	024-004-01-4	234-190-3	7789-12-0	E
Sodium chromate	024-018-00-3	231-889-5	7775-11-3	E
Cadmium sulphate	048-009-00-9	233-331-6	10124-36-4	E
1-bromopropane; Propyl bromide; n-propyl bromide	602-019-00-5	203-445-0	106-94-5	
1,2,3-trichloropropane	602-062-00-3	202-486-1	96-18-4	D
Diphenylether, octabromo derivate	602-094-00-4	251-087-9	32536-52-0	
1,2-dimethoxyethane; ethylene glycol dimethyl ether; EGDME	603-031-00-3	203-794-9	110-71-4	
1,2-bis(2-methoxyethoxy)ethane; TEGDME; Triethylene glycol dimethyl ether; Triglyme	603-176-00-2	203-977-3	112-49-2	
Tetrahydrothiopyran-2-carboxaldehyde	606-062-00-0	407-330-8	61571-06-0	
1,2-benzenedicarboxylic acid, dipentylester, branched and linear (1);	607-426-00-1	284-032-2 (1)-(2) 205-017-9 (3)-(4)	84777-06-0 (1)-(2) 131-18-0 (3) 42925-80-4 (4)	

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n-pentyl- isopentylphthalate (2); di-n-pentyl phthalate (3); Diisopentylphthalate (4)				
Benzyl butyl phthalate; BBP	607-430-00-3	201-622-7	85-68-7	
1,2- benzenedicarboxylic acid; di-C ₇ -11- branched and linear alkylesters	607-480-00-6	271-084-6	68515-42-4	
A mixture of disodium 4-(3- ethoxycarbonyl-4- (5-(3- ethoxycarbonyl-5- hydroxy-1- (4- sulfonatophenyl)pyrazol-4- yl)penta-2,4- dienylidene)-4,5- dihydro-5- oxopyrazol-1- yl)benzenesulfonate; trisodium 4-(3- ethoxycarbonyl-4- (5-(3- ethoxycarbonyl-5- oxido-1-(4- sulfonatophenyl)pyrazol-4- yl)penta-2,4- dienylidene)-4,5- dihydro-5- oxopyrazol-1- yl)benzenesulfonate	607-487-00-4	402-660-9	—	
Dinocap (ISO)	609-023-00-6	254-408-0	39300-45-3	E
2-(2- hydroxy-3- (2- chlorophenyl)carbamoyl-1- naphthylazo)-7-	611-131-00-3	420-580-2	—	

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(2-hydroxy-3-(3-methylphenyl)carbamoyl-1-naphthylazo)fluoren-9-one				
Azafenidin	611-140-00-2	—	68049-83-2	
Carbendazim (ISO); methyl benzimidazol-2-ylcarbamate	613-048-00-8	234-232-0	10605-21-7	
Benomyl (ISO); methyl 1-(butylcarbamoyl)benzimidazol-2-ylcarbamate	613-049-00-3	241-775-7	17804-35-2	
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	613-191-00-6	421-150-7	143860-04-2	
A mixture of 1,3,5-tris(3-aminomethylphenyl)-1,3,5-(1H,3H,5H)-triazine-2,4,6-trione; a mixture of oligomers of 3,5-bis(3-aminomethylphenyl)-1-poly(3,5-bis(3-aminomethylphenyl)-2,4,6-trioxo-1,3,5-(1H,3H,5H)-triazin-1-yl)-1,3,5-(1H,3H,5H)-triazine-2,4,6-trione	613-199-00-X	421-550-1	—'	

(b) the entries with index numbers 048-006-00-2, 048-008-00-3 and 603-063-00-8 are replaced by the following:

Substances	Index number	EC number	CAS number	Notes
'Cadmium fluoride	048-006-00-2	232-222-0	7790-79-6	E

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Cadmium chloride	048-008-00-3	233-296-7	10108-64-2	E
2,3-epoxypropan-1-ol; glycidol oxiranemethanol	603-063-00-8	209-128-3	556-52-5	E'

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- (1) [OJ C 255, 14.10.2005, p. 33.](#)
- (2) Opinion of the European Parliament of 23 June 2005 (not yet published in the Official Journal) and Council Decision of 8 December 2005.
- (3) [OJ L 271, 9.10.2002, p. 1.](#) Decision as amended by Decision No 786/2004/EC ([OJ L 138, 30.4.2004, p. 7.](#))
- (4) [OJ 196, 16.8.1967, p. 1.](#) Directive as last amended by Commission Directive 2004/73/EC ([OJ L 152, 30.4.2004, p. 1,](#) as corrected by [OJ L 216, 16.6.2004, p. 3.](#))
- (5) [OJ L 262, 27.9.1976, p. 201.](#) Directive as last amended by Commission Directive 2004/98/EC ([OJ L 305, 1.10.2004, p. 63.](#))
- (6) [OJ L 365, 31.12.1994, p. 1.](#)
- (7) [OJ L 183, 29.6.1989, p. 1.](#)
- (8) [OJ L 158, 30.4.2004, p. 50,](#) as corrected by [OJ L 229, 29.6.2004, p. 23.](#)