

1978 No. 1702**HEALTH AND SAFETY****Hazardous Substances (Labelling of Road Tankers) Regulations
1978***Made - - - 27th November 1978**Laid before Parliament 28th November 1978**Coming into Operation 28th March 1979*

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The Secretary of State for Transport, in the exercise of the powers conferred on him by section 15(1), (2), (3), (4), (5) and (6) of, and paragraphs 1(4) and 3 of Schedule 3 to, the Health and Safety at Work etc. Act 1974(a) ("the 1974 Act") as amended by section 116 of, and paragraph 6 of Schedule 15 to, the Employment Protection Act 1975(b) and of all other enabling powers and for the purpose of giving effect with modifications to proposals submitted to him by the Health and Safety Commission under section 11(2)(d) of the 1974 Act after the carrying out by the said Commission of consultations in accordance with section 50(3) of that Act and after consulting with the said Commission in accordance with section 50(2) of that Act, hereby makes the following Regulations:—

Citation and commencement

1. These Regulations may be cited as the Hazardous Substances (Labelling of Road Tankers) Regulations 1978 and shall come into operation on 28th March 1979.

Interpretation

2.—(1) In these Regulations unless the context otherwise requires—

"emergency action code", in relation to a prescribed hazardous substance, means the code specified in column 3 of Part I of Schedule 1 opposite to the substance name and substance identification number in columns 1 and 2 respectively of that Part, or, in a case where the substance is also specified in column 1 of Part II of Schedule 1, the alternative code specified in column 3 of the said Part II opposite to the substance name and alternative substance identification number in columns 1 and 2 respectively of that Part (the general significance of the letters and numbers which constitute the codes specified in Parts I and II of Schedule 1 being indicated in Part III of that Schedule), and "multi-load emergency action code" means an emergency action code for a multi-load ascertained in accordance with Schedule 2;

"hazard warning", in relation to a prescribed hazardous substance, means the warning specified in column 4 of Part I of Schedule 1 opposite the substance name and substance identification number in columns 1 and 2 respectively of that Part; and "hazard warning sign" means the sign specified, in relation to a hazard warning, in Schedule 3;

"multi-load" means a load consisting of two or more prescribed hazardous substances in separate compartments or tanks (whether or not a substance which is not a prescribed hazardous substance is being conveyed at the same time);

"operator" means in relation to any vehicle—

(a) the person who holds or is required by section 60 of the Transport Act 1968(c) to hold an operator's licence for the use of that vehicle for the carriage of goods on a road; or

(b) where no such operator's licence is required, the keeper of the vehicle;

"prescribed hazardous substance" means a substance specified in column 1 of Part I of Schedule 1;

"road" means a road within the meaning of section 196(1) of the Road Traffic Act 1972(d);

"road tanker" means a goods vehicle within the meaning of section 92 of the Transport Act 1968 which has a tank which forms part of or is

(a) 1974 c. 37.

(b) 1975 c. 71.

(c) 1968 c. 73.

(d) 1972 c. 20.

permanently attached to it, other than a tank used solely for the operation of the vehicle as a means of transport;

“single load” means a load consisting of only one prescribed hazardous substance (whether or not a substance which is not a prescribed hazardous substance is being conveyed at the same time);

“substance identification number”, in relation to a prescribed hazardous substance, means the number specified in column 2 of Part I of Schedule 1 opposite the name of the substance in column 1 of that Part, or, in a case where the substance is also specified in column 1 of Part II of Schedule 1, the alternative substance identification number specified in column 2 of the said Part II opposite the name of the substance.

(2) Any reference in these Regulations to a numbered Regulation or Schedule is a reference to the Regulation of, or Schedule to, these Regulations bearing that number.

(3) The Interpretation Act 1889(a) shall apply for the interpretation of these Regulations as it applies for the interpretation of an Act of Parliament.

Application of the Regulations

3.—(1) These Regulations apply for securing the labelling of road tankers used for the conveyance by road of a prescribed hazardous substance in all cases where such tankers are used for the conveyance by road of any such substance, except—

- (a) where the substance is carried in a tank which forms part of or is permanently attached to a vehicle and is used solely for the operation of that vehicle as a means of transport; or
- (b) where the road tanker is being used solely for conveying a prescribed hazardous substance from—
 - (i) another road tanker which has been damaged as a result of an accident occurring on a road, or has broken down on a road, or
 - (ii) a rail tanker which has been damaged or derailed or has broken down on a railway other than a siding on which it was loaded, and the road tanker is being escorted by a vehicle used for police or fire service purposes; or
- (c) where the road tanker—
 - (i) complies in every respect with the requirements relating to vehicles of that type contained in Annex B to the European Agreement concerning the International Carriage of Dangerous Goods by Road, signed at Geneva on the 30th September 1957(b) as revised or re-issued from time to time, and
 - (ii) is certified pursuant to that Agreement as complying with it, and
 - (iii) is engaged on an international transport operation within the meaning of that Agreement.

(2) For the purposes of these Regulations a road tanker shall be deemed to be used for the conveyance by road of a prescribed hazardous substance throughout the period from the commencement of loading for the purpose of conveying that substance by road until the tank or compartment used for that purpose has been cleaned or purged so that it is free from the substance and its vapour, whether or not it is at the material time on a road.

(a) 1889 c. 63.

(b) Cmnd. 734, Cmnd. 3769.

Particulars to be displayed on road tankers used for the conveyance of a single load

4.—(1) Where a road tanker is being used for the conveyance by road of a single load in circumstances in which these Regulations apply, the operator of that road tanker shall ensure, so far as is reasonably practicable, that it is provided with and displays hazard warning panels in accordance with Regulation 5 and paragraphs 1 to 3 and 5 of Part I and Part II of Schedule 4; and those panels shall show the following particulars:—

- (a) the emergency action code for the substance which constitutes the load;
- (b) the substance identification number for that substance;
- (c) the appropriate hazard warning sign; and
- (d) the telephone number or other text approved by the Health and Safety Executive indicating where specialist advice can be obtained at all times.

(2) The following additional information may be incorporated in the hazard warning panel—

- (a) the name (or one of the names) of the prescribed hazardous substance as specified in column 1 of Schedule 1 which constitutes the load, and, if that name is included, the trade name of the substance, and
- (b) the name of the manufacturer or owner of that substance, his house symbol or both,

and, if so incorporated, such information shall comply with the provisions of Schedule 4.

Composition, position, maintenance and removal of hazard warning panels for single loads

5.—(1) The hazard warning panels provided in accordance with Regulation 4(1) shall be three in number, one at the rear of the vehicle and one on either side of the vehicle.

(2) Each hazard warning panel shall be—

- (a) weather resistant and indelibly marked on only one side in accordance with the specification in paragraphs 1 to 3 of Part I and Part II of Schedule 4;
- (b) either rigid or fixed or attached so as to become rigid;
- (c) in the case of a side panel, securely attached in a substantially vertical plane to the tank or to the vehicle either directly or by means of a suitable frame, with—
 - (i) its forward edge as close as is practicable to the front of the tank, and
 - (ii) its lower edge at least one metre from the ground;
- (d) in the case of a rear panel, securely attached—
 - (i) in a substantially vertical plane to the tank or to the vehicle either directly or by means of a suitable frame, or where the construction of the vehicle is such that this is not practicable, in some other manner so as to be clearly visible, and
 - (ii) with its lower edge at least one metre from the ground.

(3) Hazard warning panels shall be kept clean and free from obstruction, except that a rear panel may be mounted behind a ladder of light construction which does not prevent the information thereon from being easily read.

(4) Where a road tanker has had its tank emptied and cleaned or purged so as to be free from the prescribed hazardous substance or its vapour, the operator shall ensure, so far as is reasonably practicable, that the hazard warning panels are either—

- (a) completely covered or completely removed; or
- (b) partly covered or partly removed so as to leave visible only the telephone number or other text required by Regulation 4(1)(d).

Particulars to be displayed on road tankers used for the conveyance of multi-loads

6.—(1) Where a road tanker is being used for the conveyance by road of a multi-load in circumstances in which these Regulations apply then, subject to paragraph (4) of this Regulation, the operator of that road tanker shall ensure, so far as is reasonably practicable, that it is provided with and displays hazard warning panels in accordance with Regulation 7 and paragraphs 1, 2, 4 and 5 of Part I and Part II of Schedule 4; and those panels shall show the following particulars:—

- (a) the appropriate multi-load emergency action code;
- (b) the word “multi-load”;
- (c) the appropriate hazard warning sign; and
- (d) the telephone number or other text approved by the Health and Safety Executive indicating where specialist advice can be obtained at all times.

(2) The name of the manufacturer or owner of the substance, his house symbol or both may be incorporated if so desired, and if so incorporated shall comply with the provisions of Schedule 4.

(3) In addition to the requirements of paragraph (1) of this Regulation, the operator shall ensure, so far as is reasonably practicable, that each tank on, or compartment of a tank on, the vehicle containing a prescribed hazardous substance is labelled with compartment labels in accordance with Regulation 7 and paragraphs 6 to 9 of Part I and Part II of Schedule 4; and those labels shall show the following particulars:—

- (a) the appropriate substance identification number for the substance and, if desired, the name (or one of the names) of the substance as specified in column 1 of Part I of Schedule 1 and, if that name is included, the trade name of the substance may also be included; and
- (b) where any other tank or compartment contains a prescribed hazardous substance of a different hazard, the appropriate hazard warning sign.

(4) Where, by virtue of paragraph 4 of Schedule 2, a road tanker is being treated as conveying a single load, this Regulation and Regulation 7 shall not apply, but Regulations 4 and 5 shall apply with the modification that the substance identification number and the emergency action code shall be ascertained from the said paragraph 4.

Composition, position, maintenance and removal of hazard warning panels and compartment labels for multi-loads

7.—(1) The hazard warning panels provided in accordance with Regulation 6(1) shall be three in number, one at the rear of the vehicle and one on either side of the vehicle and each such panel shall be—

- (a) weather resistant and indelibly marked, on one side only, in accordance with the specification in paragraphs 1, 2 and 4 of Part I and Part II of Schedule 4; and
- (b) either rigid or fixed or attached so as to become rigid.

(2) Each side panel shall be securely attached to the tank or to the vehicle in a substantially vertical plane either directly or by means of a suitable frame with—

- (a) its forward edge as close as is practicable to the front of the tank or, if there is more than one tank on the vehicle, to the front of the foremost tank; and
- (b) its lower edge at least one metre from the ground.

(3) The rear panel shall be securely attached—

- (a) in a substantially vertical plane, to the tank or to the vehicle either directly or by means of a suitable frame or, where the construction of the vehicle is such that this is not practicable, securely attached in such a manner as to be clearly visible;
- (b) with its lower edge at least one metre from the ground.

(4) The compartment labels provided in accordance with Regulation 6(3) shall be two in number, one on either side of the vehicle, and each such label shall be—

- (a) weather resistant and indelibly marked, on one side only, in accordance with the specification in paragraphs 6 to 9 of Part I and Part II of Schedule 4, and
- (b) either rigid or fixed or attached so as to become rigid.

(5) Each compartment label shall be securely attached to the tank or to the vehicle in a substantially vertical plane either directly or by means of a suitable frame as close as is practicable to a position midway between the front and the rear of the compartment or tank.

(6) Hazard warning panels and compartment labels shall be kept clean and free from obstruction, except that a rear panel may be mounted behind a ladder of light construction which does not prevent the information thereon from being easily read.

(7) Where a road tanker—

- (a) has had one or more of its compartments, or in the case of separate tanks, one or more of its tanks, emptied and cleaned or purged so as to be free from a prescribed hazardous substance or its vapour, the operator shall ensure, so far as is reasonably practicable, that—
 - (i) the compartment label referring to such compartment or tank is completely covered or completely removed, and
 - (ii) the hazard warning panels are changed to those appropriate for the load for the time being carried, whether that load be a single load or a multi-load;

- (b) has had all its compartments or tanks emptied and cleaned or purged so as to be free from any prescribed hazardous substance or its vapour, the operator shall ensure, so far as is reasonably practicable, that the hazard warning panels are either—
- (i) completely covered or completely removed; or
 - (ii) partly covered or partly removed so as to leave visible only the telephone number or other approved text required by Regulation 6(1)(d).

Duty of the consignor of a prescribed hazardous substance

8. The consignor of any prescribed hazardous substance or other person requiring such a substance to be conveyed by road shall ensure that the operator has such information as is necessary to enable him to prepare the appropriate hazard warning panels and compartment labels in accordance with these Regulations.

Duty of the operator of a road tanker to instruct driver

9. The operator of a road tanker which is to be used for the conveyance by road of a prescribed hazardous substance shall ensure that the driver is adequately instructed as to the significance of the hazard warning panels and compartment labels required to be displayed during conveyance and as to his duty under Regulation 10.

Duty of the driver of a road tanker

10. The driver of a road tanker which is being used for the conveyance by road of a prescribed hazardous substance in circumstances to which these Regulations apply shall ensure, so far as is reasonably practicable, that all hazard warning panels and compartment labels are displayed on the road tanker at all times when required by these Regulations and that they are kept clean and, subject to Regulations 5(3) and 7(6), free from obstruction.

Labelling under these Regulations to satisfy the requirements of certain statutory provisions

11. Where a prescribed hazardous substance is conveyed by road and the road tanker is labelled in accordance with these Regulations, that labelling shall be a sufficient compliance with any provision of—

- (a) section 5 of the Petroleum (Consolidation) Act 1928(a), and
- (b) any Regulation made under section 6 of that Act,

in so far as that provision relates to labelling of vehicles of that type for the conveyance by road of that substance; and that section and any such Regulation shall be modified accordingly.

Exemption certificates

12.—(1) Subject to paragraph (2) of this Regulation, the Health and Safety Executive may, by certificate in writing, exempt any person, class of person, road tanker or class of road tanker from all or any of the requirements of these Regulations in respect of any prescribed hazardous substance or class of prescribed hazardous substances; and any such exemption may be granted subject to conditions and to a limit of time and may be revoked at any time.

(2) The Executive shall not grant any such exemption unless it is satisfied that, having regard to any conditions it may attach to the exemption and to any legal obligations which would also apply, the health and safety of persons who are likely to be affected by the exemption will not be prejudiced by it.

Enforcement

13. The authority responsible for the enforcement of these Regulations in relation to a road tanker shall be—

- (a) in a case where the road tanker is on a road, the Chief Officer of Police for the area in which the road is situated; or
- (b) in any other case, the Health and Safety Executive.

27th November 1978.

William Rodgers,
Secretary of State for Transport.

SCHEDULE 1 *Regulations 2(1), 4(2) and 6(3)*

PART I

LIST OF PRESCRIBED HAZARDOUS SUBSTANCES WITH THE SUBSTANCE IDENTIFICATION NUMBERS, EMERGENCY ACTION CODES AND HAZARD WARNINGS TO BE USED WITH THEM

In this Part, "n.o.s." where it appears in column 1 means not otherwise specified; and column 3 shall be interpreted in accordance with Part III.

1	2	3	4
Name of substance	Substance identification number	Emergency action code	Hazard warning
Acetal	1088	3 <input checked="" type="checkbox"/> E	Flammable liquid
Acetaldehyde (Aldehyde)	1089	2YE	Flammable liquid
Acetic acid, glacial and over 90% by weight	1842	2P	Flammable liquid
Acetic anhydride	1715	2P	Corrosive substance
Acetone	1090	2 <input checked="" type="checkbox"/> E	Flammable liquid
Acetone cyanohydrin	1541	2XE	Toxic substance
Acetyl bromide	1716	4WE	Corrosive substance

1 Name of substance	2 Substance identifi- cation number	3 Emergen- cy action code	4 Hazard warning
Acetyl chloride	1717	4WE	Corrosive substance
Acid mixtures, nitrating acid ...	1796	4WE	Corrosive substance
Acrolein dimer, stabilized (2-Formyl-3, 4-dihydro-2H pyran)	2607	2 S	Flammable liquid
Acrylamide	2074	2PE	Harmful substance
Acrylic acid, inhibited	2218	2P	Corrosive substance
Acrylonitrile, inhibited	1093	3WE	Flammable liquid
Adiponitrile (1, 4-Dicyanobutane, Tetramethylene cyanide)	2205	3X	Harmful substance
Air, refrigerated liquid	1003	2P	Non-flammable compressed gas
Alcohol, denatured (Methylated spirit)	1095	2 S E	Flammable liquid
Alcohol, industrial	1096	2 S E	Flammable liquid
Allyl acetate	2333	3WE	Flammable liquid
Allyl alcohol	1098	2PE	Flammable liquid
Allylamine	2334	2WE	Flammable liquid
Allyl bromide	1099	2WE	Flammable liquid
Allyl chloride (3-Chloropropene) ...	1100	3WE	Flammable liquid
Allyl chloroformate	1722	2WE	Corrosive substance
Allyl glycidyl ether	2219	2S	Flammable liquid
Allyl iodide	1723	2WE	Corrosive substance
Ammonia, anhydrous, liquefied and ammonia solutions having a density (specific gravity) of less than 0.880 at 15°C in water, containing over 50% ammonia	1005	2PE	Toxic gas
Ammonia solutions having a density (specific gravity) of less than 0.880 at 15°C in water containing more than 35% and not above 50% ammonia	2073	2PE	Toxic gas
Amyl acetates	1104	3 Y	Flammable liquid

1 Name of substance	2 Substance identifi- cation number	3 Emergen- cy action code	4 Hazard warning
Amyl alcohols	1105	3 Y	Flammable liquid
Amylene, normal (1-Pentene) ...	1108	3 Y E	Flammable liquid
Amyl formates	1109	3 Y	Flammable liquid
Amyl mercaptan	1111	3WE	Flammable liquid
Aniline (Aniline oil, Phenylamine, Aminobenzene)	1547	3X	Toxic substance
<i>ortho</i> -Anisidine	2431	3X	Harmful substance
Anisole	2222	3Y	Flammable liquid
Benzaldehyde	1990	3 Z	Flammable liquid
Benzene (Benzol)	1114	3WE	Flammable liquid
Boron trifluoride diethyl etherate ...	2604	4WE	Flammable liquid
Bromine and solutions of bromine ...	1744	2XE	Corrosive substance
Bromobenzene	2514	2 Z	Flammable liquid
Butadiene, inhibited	1010	2WE	Flammable gas
Butane or butane mixtures	1011	2WE	Flammable gas
Butanedione	2346	2 S	Flammable liquid
Butanol (Butyl alcohol)	1120	3 Y	Flammable liquid
secondary Butanol (secondary Butyl alcohol)	1121	2 S	Flammable liquid
tertiary Butanol (tertiary Butyl alcohol)	1122	2 S E	Flammable liquid
Butyl acetate, normal	1123	3 Y	Flammable liquid
secondary Butyl acetate	1124	3 Y E	Flammable liquid
Butylacrylate	2348	3 Y	Flammable liquid
Butylamine, normal	1125	2WE	Flammable liquid
Butyl benzene (2-Methyl-2-phenyl- propane; 1-Phenylbutane; 2-Phe- nylbutane)	2709	3 Y	Flammable liquid
Butyl bromide, normal	1126	2 Y E	Flammabe liquid
Butylene (Butene)	1012	2WE	Flammable gas

1 Name of substance	2 Substance identi- fication number	3 Emergen- cy action code	4 Hazard warning
Butyl formate, normal	1128	3 Y E	Flammable liquid
<i>n</i> -Butyl methacrylate	2227	3 Y	Flammable liquid
Butyl nitrite	2351	3 Y E	Flammable liquid
Butyl toluenes (<i>p-tert</i> -Butyltoluene) ...	2667	3 Z	Harmful substance
Butyltrichlorosilane	1747	4WE	Corrosive substance
Butyl vinyl ether	2352	3 Y E	Flammable liquid
Butyraldehyde	1129	3WE	Flammable liquid
Butyronitrile	2411	3WE	Flammable liquid
Caesium hydroxide solution ...	2681	2R	Corrosive substance
Calcium carbide (Carbide of calcium)	1402	4Y	Substance which in contact with water emits flammable gases
Calcium chlorate, solution	2429	2S	Oxidizing substance
Camphor oil	1130	3 Y	Flammable liquid
Carbon dioxide (Carbonic anhydride) refrigerated liquid	2187	2XE	Non-flammable compressed gas
Carbon disulphide (Carbon bisul- phide)	1131	3WE	Flammable liquid
Carbon tetrachloride	1846	2Z	Toxic substance
Caustic alkali liquids, n.o.s.	1719	2R	Corrosive substance
Chlorine	1017	2XE	Toxic gas
Chloroacetic acid (Monochloroacetic acid), liquid	1750	2R	Corrosive substance
Chloroanilines, liquid	2019	2X	Toxic substance
Chlorobenzene (Monochlorobenzene)	1134	2Y	Flammable liquid
Chlorobutanes (1-Chlorobutane, Butyl chloride normal, 2-Chlorobutane)	1127	3 Y E	Flammable liquid
Chlorodinitrobenzene (Dinitrochloro- benzene)	1577	2W	Toxic substance
Chloroform	1888	2Z	Toxic substance

1 Name of substance	2 Substance identi- fication number	3 Emergen- cy action code	4 Hazard warning
Chloronitrobenzenes	1578	2X	Toxic substance
Chloro- <i>ortho</i> -nitrotoluene	2433	2X	Harmful substance
Chlorophenates (Chlorophenols), liquid	2021	2X	Harmful substance
Chloroprene, inhibited	1991	3WE	Flammable liquid
Chlorosulphonic acid (with or without sulphur trioxide)	1754	4WE	Corrosive substance
Chlorotoluenes	2238	3 Y	Flammable liquid
Chromic acid solution	1755	2X	Corrosive substance
Cresols (<i>meta</i> -, <i>ortho</i> -, and <i>para</i> -) ...	2076	2X	Toxic substance
Cresylic acid	2022	2X	Toxic substance
Crotonaldehyde, (<i>beta</i> -Methyl acro- lein, 2-Butenal, Crotonic aldehyde), stabilized	1143	2WE	Flammable liquid
Crotonylene	1144	3 Y E	Flammable liquid
Cyanide solutions	1935	2X	Toxic substance
Cyclohexanone	1915	3 Y	Flammable liquid
Cyclohexene	2256	3 Y E	Flammable liquid
Cyclohexylamine	2357	3WE	Flammable liquid
Cyclopentane	1146	3 Y E	Flammable liquid
Cyclopentanol	2244	3 Y	Flammable liquid
Cyclopentanone	2245	3 Y	Flammable liquid
Cyclopentene	2246	3 Y E	Flammable liquid
Cyclopropane, liquefied	1027	2WE	Flammable gas
Decahydronaphthalene (Decalin) ...	1147	3 Z	Flammable liquid
<i>n</i> -Decane	2247	3 Y	Flammable liquid
Diacetone alcohol	1148	2 S E	Flammable liquid
Dibutyl ethers (Butyl ethers) ...	1149	3 Y	Flammable liquid
Dichloroacetic acid	1764	2R	Corrosive substance

1 Name of substance	2 Substance identi- fication number	3 Emergen- cy action code	4 Hazard warning
Dichloroacetyl chloride	1765	4WE	Corrosive substance
<i>o</i> -Dichlorobenzene (Orthodichloro- benzene)	1591	2Z	Harmful substance
Dichloroethylene	1150	3 Y E	Flammable liquid
Dichloroethyl ether	1916	2W	Flammable liquid
Dichloromethane (Methylene chlo- ride)	1593	2Z	Harmful substance
1, 2-Diethoxyethane (Ethylene glycol diethyl ether)	1153	3 Y	Flammable liquid
Diethylamine	1154	2WE	Flammable liquid
Diethylaminoethanol (N, N-Diethyl ethanolamine)	2686	2S	Flammable liquid
N, N-Diethyl aniline	2432	3X	Harmful substance
Diethylbenzene	2049	3 Y	Flammable liquid
Diethylcarbinol (3-Pentanol) ...	2706	3 Y	Flammable liquid
Diethyl ether (Ethyl ether, Anaesthe- tic ether, Sulphuric ether)	1155	3YE	Flammable liquid
Diethyl ketone	1156	3 Y E	Flammable liquid
Diethyl sulphate (Ethyl sulphate) ...	1594	2X	Toxic substance
Diisobutylene, isomeric compounds (<i>alpha</i> -Diisobutylene; <i>beta</i> -Diiso- butylene; 2, 4, 4-Trimethylpentene- 1; 2, 4, 4-Trimethylpentene -2)	2050	3 Y E	Flammable liquid
Diisobutyl ketone	1157	3 Y	Flammable liquid
Diisopropylamine	1158	3WE	Flammable liquid
Diisopropyl ether	1159	3 Y E	Flammable liquid
Diketene, inhibited	2521	2 S	Flammable liquid
1, 2-Dimethoxyethane	2252	2 S E	Flammable liquid
Dimethylamine solution	1160	2P	Flammable liquid
2, 3-Dimethylbutane	2457	3 Y E	Flammable liquid
Dimethyl carbonate	1161	3YE	Flammable liquid

1 Name of substance	2 Substance identi- fication number	3 Emergen- cy action code	4 Hazard warning
Dimethylcyclohexanes	2263	3 Y E	Flammable liquid
Dimethylcyclohexylamine	2264	3W	Corrosive substance
Dimethyldichlorosilane	1162	4WE	Flammable liquid
Dimethylethanolamine (Deanol, 2-Dimethylaminoethanol)	2051	2S	Flammable liquid
N, N-Dimethylformamide	2265	2P	Harmful substance
Dimethyl sulphate (Methyl sulphate)	1595	2XE	Toxic substance
Dinitrobenzenes	1597	2W	Toxic substance
Dinitrotoluenes, liquid	1600	2W	Toxic substance
Dioxane	1165	2SE	Flammable liquid
Dioxolane	1166	2PE	Flammable liquid
Dipentene (Cajeputene; Cinene; <i>de-para-mentha</i> -1, 8-diene; Limonene, inactive)	2052	3 Y	Flammable liquid
Diquat	7003	2R	Toxic substance
Divinyl ether	1167	3YE	Flammable liquid
Epichlorohydrin	2023	2W	Toxic substance
Ethane, refrigerated liquid	1961	2WE	Flammable gas
Ethanol (Ethyl alcohol)	1170	2 S E	Flammable liquid
Ethanolamine and solutions thereof...	2491	2T	Corrosive substance
2-Ethoxyethanol (Ethylene glycol monoethyl ether)	1171	2S	Flammable liquid
2-Ethoxyethyl acetate (Ethylene glycol monoethyl ether acetate, Ethylglycol acetate)	1172	2 S	Flammable liquid
Ethyl acetate	1173	3 Y E	Flammable liquid
Ethyl acrylate, inhibited	1917	3WE	Flammable liquid
Ethylamine (Mono-ethylamine) ...	1036	2PE	Flammable gas
Ethylamine 50-70% solution in water	2270	2PE	Flammable liquid
Ethyl amyl ketone	2271	3 Y	Flammable liquid

1 Name of substance	2 Substance identifi- cation number	3 Emergen- cy action code	4 Hazard warning
Ethylbenzene	1175	3 Y E	Flammable liquid
Ethyl borate (Triethyl borate) ...	1176	2 S E	Flammable liquid
2-Ethylbutanol	2275	3 Y	Flammable liquid
Ethyl butyl ether (Butyl ethyl ether)	1179	3 Y E	Flammable liquid
Ethyl butyrate	1180	3 Y	Flammable liquid
Ethylene, refrigerated liquid ...	1038	2WE	Flammable gas
Ethylene chlorohydrin	1135	2W	Toxic substance
Ethylenediamine(1,2-Diaminoethane)	1604	2P	Corrosive substance
Ethylene dibromide	1605	2X	Toxic substance
Ethylene dichloride (1,2-Dichloroethane)	1184	2YE	Flammable liquid
Ethylene glycol monomethyl ether acetate	1189	2 S	Flammable liquid
Ethylene oxide (Oxirane, Epoxyethane) containing not more than 0.2% nitrogen	1040	2PE	Flammable gas
Ethyl formate	1190	3YE	Flammable liquid
Ethyl lactate	1192	3 Y	Flammable liquid
Ethyl methacrylate	2277	3 Y E	Flammable liquid
Ethyl methyl ether	1039	2PE	Flammable gas
Ethyl methyl ketone (Methyl ethyl ketone, Butanone)	1193	2 Y E	Flammable liquid
Ethyl propionate	1195	3 Y E	Flammable liquid
Ethyl propyl ether (Ethoxy propane-1)	2615	3 Y E	Flammable liquid
Fluoboric acid (Hydrofluoboric acid)	1775	2X	Corrosive substance
Fluosilicic acid (Silicofluoric acid, Hydrosilicofluoric acid, Hydrofluosilicic acid, Sand acid)	1778	2X	Corrosive substance
Formaldehyde solutions with a flash point not above 60.5°C	1198	2SE	Flammable liquid

1 Name of substance	2 Substance identifi- cation number	3 Emergen- cy action code	4 Hazard warning
Formaldehyde, solutions with a flash point above 60.5°C (Formalin, Formic aldehyde, Methanal)	2209	2T	Other hazardous substance
Formic acid	1779	2R	Corrosive substance
Furfural	1199	2W	Flammable liquid
Fusel oil	1201	3 Y	Flammable liquid
Gas oil	1202	3 Z	Flammable liquid
Hazardous waste, liquid, containing acid	7006	2WE	Other hazardous substance
Hazardous waste, solid or sludge, containing acid	7007	2WE	Other hazardous substance
Hazardous waste, liquid, containing alkali	7008	2WE	Other hazardous substance
Hazardous waste, solid or sludge, containing alkali	7009	2WE	Other hazardous substance
Hazardous waste, flammable liquid, flash point below 23°C	7010	3WE	Other hazardous substance
Hazardous waste, flammable liquid, flash point 23°C to 60.5°C	7011	3W	Other hazardous substance
Hazardous waste, flammable, solid or sludge, n.o.s.	7012	3WE	Other hazardous substance
Hazardous waste, solid or sludge, n.o.s.	7014	2X	Other hazardous substance
Hazardous waste, liquid, n.o.s. ...	7015	2X	Other hazardous substance
Hazardous waste, solid or sludge, toxic, n.o.s.	7016	2X	Other hazardous substance
Hazardous waste, liquid, toxic, n.o.s.	7017	2X	Other hazardous substance
Hazardous waste, liquid, containing inorganic cyanides	7019	4X	Other hazardous substance
Hazardous waste, solid or sludge, agrochemicals, toxic, n.o.s.	7020	4WE	Other hazardous substance

1 Name of substance	2 Substance identifi- cation number	3 Emergen- cy action ccode	4 Hazard warning
Hazardous waste, liquid, agro-chemicals, toxic, n.o.s.	7021	4WE	Other hazardous substance
Hazardous waste, containing isocyanates, n.o.s.	7022	4WE	Other hazardous substance
Hazardous waste, containing organo-lead compounds, n.o.s.	7023	4WE	Other hazardous substance
Heptane and its isomers	1206	3 Y E	Flammable liquid
<i>n</i> -Heptene	2278	3 Y E	Flammable liquid
Hexadiene	2458	3 Y E	Flammable liquid
Hexaldehyde	1207	3 Y	Flammable liquid
Hexamethylenediamine solution ...	1783	2R	Corrosive substance
Hexane and its isomers	1208	3 Y E	Flammable liquid
Hexanols	2282	3 Y	Flammable liquid
Hex-1-ene	2370	3 Y E	Flammable liquid
Hydrazine, anhydrous and its aqueous solutions, containing more than 64%, by weight, hydrazine	2029	2PE	Corrosive substance
Hydrazine hydrate and aqueous solutions of hydrazine, containing not more than 64%, by weight, hydrazine	2030	2P	Corrosive substance
Hydrobromic acid (Hydrogen bromide solution)	1788	2R	Corrosive substance
Hydrocarbon gases and mixtures of such gases, liquefied, n.o.s.	1965	2WE	Flammable gas
Hydrochloric acid in solution (Muriatic acid, Spirits of salts)	1789	2R	Corrosive substance
Hydrofluoric acid solution (Fluoric acid, Hydrogen fluoride solution) containing less than 60% hydrogen fluoride	1790	2PE	Corrosive substance
Hydrofluoric acid solution (Fluoric acid, Hydrogen fluoride solution) containing 60% or more hydrogen fluoride	1790	4WE	Corrosive substance
Hydrogen, refrigerated liquid ...	1966	2WE	Flammable gas

1 Name of substance	2 Substance identi- fication number	3 Emergen- cy action code	4 Hazard warning
Hydrogen chloride, refrigerated liquid	2186	2RE	Toxic gas
Hydrogen fluoride, anhydrous ...	1052	4WE	Toxic gas
Hydrogen peroxide, aqueous solutions containing at least 8% and not more than 60% hydrogen peroxide (stabilized as necessary)	2014	2P	Oxidizing substance
Hydrogen peroxide and its aqueous solutions, stabilized, containing more than 60% hydrogen peroxide	2015	2PE	Oxidizing substance
Hypochlorite, solutions containing more than 5% available chlorine	1791	2R	Corrosive substance
Isobutane and isobutane mixtures ...	1969	2WE	Flammable gas
Isobutanol (Isobutyl alcohol) ...	1212	3 Y	Flammable liquid
Isobutyl acetate	1213	3 Y E	Flammable liquid
Isobutylamine	1214	2WE	Flammable liquid
Isobutylene (Isobutene)	1055	2WE	Flammable gas
Isobutyl methacrylate	2283	3 Y	Flammable liquid
Isobutyraldehyde (Isobutyl aldehyde)	2045	3WE	Flammable liquid
Isobutyronitrile	2284	3WE	Flammable liquid
Isododecane (Pentamethylheptane) ...	2286	3 Y	Flammable liquid
Isoheptene	2287	3 Y E	Flammable liquid
Isohexene	2288	3 Y E	Flammable liquid
Isononanoyl peroxide, technical pure or in solution	2128	2WE	Organic peroxide
Isooctene	1216	3 Y E	Flammable liquid
Isoprene, inhibited	1218	3 Y E	Flammable liquid
Isopropanol (Isopropyl alcohol) ...	1219	2 S E	Flammable liquid
Isopropenyl acetate	2403	3 Y E	Flammable liquid
Isopropenylbenzene (<i>alpha</i> -Methylstyrene, 2-phenylpropene)	2303	3 Y	Flammable liquid
Isopropyl acetate	1220	3 Y E	Flammable liquid

1 Name of substance	2 Substance identifi- cation number	3 Emergen- cy action code	4 Hazard warning
Isopropylamine	1221	2WE	Flammable liquid
Isopropylbenzene (Cumene) ...	1918	3 Y	Flammable liquid
Isopropyl formate	2408	3YE	Flammable liquid
Kerosene (Paraffin)	1223	3 Y	Flammable liquid
Lithium hydroxide solution	2679	2R	Corrosive substance
<i>p</i> -Menthane hydroperoxide, technical pure	2125	2WE	Organic peroxide
Mesityl oxide	1229	3W	Flammable liquid
Methacrylic acid, inhibited	2531	3X	Corrosive substance
Methane and natural gases with a high methane content, refrigerated liquid	1972	2WE	Flammable gas
Methanol (Methyl alcohol, Wood alcohol, Columbian spirits)	1230	2PE	Flammable liquid
Methyl acetate	1231	2 S E	Flammable liquid
Methyl acrylate, inhibited	1919	3WE	Flammable liquid
Methylal	1234	2 Y E	Flammable liquid
Methylamine, aqueous solution ...	1235	2PE	Flammable liquid
2-Methyl-1-butene	2459	3 Y E	Flammable liquid
2-Methyl-2-butene	2460	3 Y E	Flammable liquid
Methyl butyrate	1237	3 Y E	Flammable liquid
Methyl cyanide (Acetonitrile) ...	1648	2WE	Toxic substance
Methyl cyclohexane	2296	3 Y E	Flammable liquid
Methyl cyclohexanone	2297	3Y	Flammable liquid
Methyl cyclohexanols (Hexahydro- methyl phenol, Hexahydroresol) of flash point below 60.5°C	2617	3 Y	Flammable liquid
Methylene bis (phenylene diisocyan- ate)	2489	2X	Harmful substance
Methyl formate	1243	2SE	Flammable liquid
2-Methylfuran... ..	2301	3YE	Flammable liquid

1 Name of substance	2 Substance identifi- cation number	3 Emergen- cy action code	4 Hazard warning
5-Methylhexan -2-one	2302	3Y	Flammable liquid
Methyl isobutyl carbinol (Methyl amyl alcohol, M.I.B.C., 4-Methyl- pentan -2-ol)	2053	3 Y	Flammable liquid
Methyl isobutyl ketone	1245	3 Y E	Flammable liquid
Methyl isocyanate and solutions ...	2480	3WE	Flammable liquid
Methyl isopropenyl ketone, inhibited	1246	3WE	Flammable liquid
Methyl methacrylate monomer, in- hibited	1247	3 Y E	Flammable liquid
Methyl propionate	1248	3 Y E	Flammable liquid
Methyl propyl ketone	1249	3 Y E	Flammable liquid
Methyl vinyl ketone	1251	2PE	Flammable liquid
Morpholine (Tetrahydro -1, 4- oxazine)	2054	2P	Flammable liquid
Naphtha (Coal tar, crude and solvent)	2553	3YE	Flammable liquid
Naphthalene, molten	2304	1X	Flammable solid
Nitric acid, other than red fuming nitric acid	2031	2PE	Corrosive substance
Nitric acid, red fuming	2032	2PE	Corrosive substance
Nitrobenzene (Nitrobenzol, Mirbane oil)	1662	2X	Toxic substance
Nitrogen, refrigerated liquid... ..	1977	2RE	Non-flammable compressed gas
Nitrotoluenes	1664	2X	Toxic substance
Nonane and its isomers	1920	3 Y	Flammable liquid
Octane and its isomers	1262	3 Y E	Flammable liquid
Oil gas	1071	2SE	Flammable gas
Oxygen, refrigerated liquid	1073	2PE	Non-flammable compressed gas
Paraldehyde	1264	2S	Flammable liquid
Pentan-2, 4-dione	2310	2 S	Flammable liquid

1 Name of substance	2 Substance identifi- cation number	3 Emergen- cy action code	4 Hazard warning
Pentane, normal and isopentane ...	1265	3 Y E	Flammable liquid
Petrol	1203	3 Y E	Flammable liquid
Petroleum distillates, n.o.s. Benzene content less than 5% (see Note 1 below)	1268	3 Y E	Flammable liquid
Petroleum fuel n.o.s. (see Note 2 below)	1270	3 Y E	Flammable liquid
Petroleum gases, liquefied n.o.s. ...	1075	2WE	Flammable gas
Petroleum spirit (Benzolene, Lythene, Petroleum ether)	1271	3 Y E	Flammable liquid
Phenol (Carbolic acid), molten ...	2312	2X	Toxic substance
Phenosulphonic acid, liquid	1803	2R	Corrosive substance
Phosphoric acid (Orthophosphoric acid)	1805	2R	Corrosive substance
Phosphorus white, molten	2447	2WE	Spontaneously com- bustible substance
Phosphorus trichloride (Phosphorus chloride)	1809	4WE	Corrosive substance
Phosphoryl chloride (Phosphorus oxychloride)	1810	4WE	Corrosive substance
Picolines (Methyl pyridines) ...	2313	2S	Flammable liquid
<i>alpha</i> -Pinene	2368	3 Y	Flammable liquid
Pine oil... ..	1272	3 Y	Flammable liquid
Piperidine	2401	2WE	Flammable liquid
Polychlorinated biphenyls	2315	4X	Other hazardous substance
Potassium chlorate, solution ...	2427	2S	Oxidizing substance
Potassium hydroxide, solution (Caus- tic potash, Potash liquor)	1814	2R	Corrosive substance
Propane	1978	2WE	Flammable gas

1. Where benzene content is 5 per cent. or more use entry for benzene.

2. This substance does not include butane, butane mixtures, hydrocarbon gases and mixtures of such gases n.o.s. or propane.

1 Name of substance	2 Substance identi- fication number	3 Emergen- cy action code	4 Hazard warning
Propanol (Propyl alcohol)	1274	2 S E	Flammable liquid
Propionaldehyde	1275	2YE	Flammable liquid
Propionic acid	1848	2P	Corrosive substance
Propionitrile	2404	2WE	Flammable liquid
Propyl acetate, normal	1276	3 Y E	Flammable liquid
Propylamine (Monopropylamine) ...	1277	2WE	Flammable liquid
Propylene oxide	1280	2PE	Flammable liquid
Propyl formates	1281	3 Y E	Flammable liquid
Pyridine	1282	2WE	Flammable liquid
Quinoline	2656	3Z	Harmful substance
Resin solutions in flammable liquids—			
Epoxy resin in methyl ethyl ketone	1866	2W	Flammable liquid
Phenolic resin in methanol ...	1866	2WE	Flammable liquid
Polyester resin in styrene with flash point of more than 23°C	1866	3 Y	Flammable liquid
Polyester resin in styrene with flash point of 23°C or less	1866	3 Y E	Flammable liquid
Sodium aluminate, solution ...	1819	2R	Corrosive substance
Sodium chlorate, solution	2428	2S	Oxidizing substance
Sodium chlorite, solution containing more than 5% available chlorine	1908	2R	Corrosive substance
Sodium hydroxide solution (Caustic soda liquor, Sodium hydrate, Lye)	1824	2R	Corrosive substance
Sodium methylate, solutions in alcohol	1289	2PE	Flammable liquid
Sodium sulphide, hydrated with at least 30% water	1849	2R	Corrosive substance
Styrene monomer, inhibited (Cinna- mene, Cinnamol, Phenylethylene or Vinylbenzene)	2055	3 Y	Flammable liquid
Sulphur, molten	2448	2X	Flammable solid
Sulphur dioxide, liquefied	1079	2RE	Toxic gas

1 Name of substance	2 Substance identifi- cation number	3 Emergen- cy action code	4 Hazard warning
Sulphuric acid	1830	2P	Corrosive substance
Sulphuric acid fuming	1831	4WE	Corrosive substance
Sulphuric acid spent	1832	2P	Corrosive substance
Sulphur trioxide, inhibited	1829	4WE	Corrosive substance
Sulphuryl chloride	1834	4WE	Corrosive substance
Tars, liquid, including road asphalt and oils, bitumen and cut backs	1999	2W	Flammable liquid
Terpene hydrocarbons, n.o.s. ...	2319	3 Y	Flammable liquid
Tetrachloroethane (Acetylene tetra- chloride)	1702	2XE	Toxic substance
Tetrachloroethylene (Perchloroethy- lene)	1897	2 Z	Harmful substance
Tetraethyl silicate (Ethyl silicate) ...	1292	3Y	Flammable liquid
Tetrahydrofuran	2056	2SE	Flammable liquid
Thionyl chloride	1836	4WE	Corrosive substance
Thiophene	2414	3WE	Flammable liquid
Toluene (Toluol)	1294	3 Y E	Flammable liquid
Toluene di-isocyanate (Tolylene di- isocyanate, Toluylene di-isocyanate)	2078	2XE	Toxic substance
Toluidines	1708	3X	Toxic substance
2, 4-Toluylenediamine	1709	2X	Harmful substance
Trichloroethylene	1710	2Z	Harmful substance
Triethylamine	1296	3WE	Flammable liquid
Triisobutylene	2324	3 Y	Flammable liquid
Trimethylamine, aqueous solutions containing not more than 30% tri- methylamine	1297	2PE	Flammable liquid
1, 3, 5 -Trimethylbenzene	2325	3 Y	Flammable liquid
Trimethyl borate	2416	2 S	Flammable liquid

1 Name of substance	2 Substance identifi- cation number	3 Emergen- cy action code	4 Hazard warning
Trimethyl phosphite	2329	3 Y	Flammable liquid
Tripropylamine	2260	3W	Flammable liquid
Tripropylene (Propylene trimer) ...	2057	3 Y	Flammable liquid
Turpentine	1299	3 Y	Flammable liquid
Turpentine substitute (White spirit) ...	1300	3Y	Flammable liquid
Vinyl acetate, inhibited	1301	3 Y E	Flammable liquid
Vinyl ethyl ether, inhibited	1302	3YE	Flammable liquid
Vinylidene chloride, inhibited ...	1303	3YE	Flammable liquid
Vinyl isobutyl ether, inhibited ...	1304	3YE	Flammable liquid
Vinyl toluene (Methylstyrene, Methy- lvinyl benzene, Tolyethylene), mixed isomers, inhibited	2618	3 Y	Flammable liquid
Xylene (Xylol)	1307	3 Y	Flammable liquid
Xylenols	2261	2X	Toxic substance
Zinc chloride, solution	1840	2R	Corrosive substance

PART II

ALTERNATIVE SUBSTANCE IDENTIFICATION NUMBERS
AND EMERGENCY ACTION CODE FOR CERTAIN SUBSTANCES

Where any of the substances in column 1 below are being conveyed the substance identification number and emergency action code set out opposite thereto in columns 2 and 3 respectively below may be used as an alternative to those shown in Part I of this Schedule.

1 Substance	2 Alternative substance identification No.	3 Alternative emergency action code
Turpentine substitute	1268	3 Y E
Gas oil	1270	3 Y E
Petrol	1270	3 Y E
Kerosene	1270	3 Y E

PART III

INTERPRETATION OF COLUMN 3 IN PARTS I AND II OF THIS SCHEDULE

1. The number indicates the equipment suitable for fire fighting and where appropriate for dispersing spillages—

- “1” water jets
- “2” water fog
- “3” foam
- “4” dry agent.

Notes:

(1) In the absence of fog equipment, a fine spray of water may be used.

(2) Dry agent—contact of these substances with water is hazardous.

2. The first letter indicates the appropriate precautions in the event of a fire or a spillage as indicated by the table below:

Letter	Danger of violent reaction or explosion	Protective clothing and breathing apparatus	Appropriate measures
P	Yes	Full protective clothing	Dilute
R	No	Full protective clothing	Dilute
S	Yes	Breathing apparatus	Dilute
S	Yes	Breathing apparatus for fire only	Dilute
T	No	Breathing apparatus	Dilute
T	No	Breathing apparatus for fire only	Dilute
W	Yes	Full protective clothing	Contain
X	No	Full protective clothing	Contain
Y	Yes	Breathing apparatus	Contain
Y	Yes	Breathing apparatus for fire only	Contain
Z	No	Breathing apparatus	Contain
Z	No	Breathing apparatus for fire only	Contain

Notes:

(1) “Full protective clothing” includes breathing apparatus.

(2) Where “breathing apparatus” is indicated protective gloves are appropriate.

(3) “Dilute” indicates that the substance may be washed to drain with a large quantity of water.

(4) “Contain” indicates a need to avoid spillages from entering drains or water courses.

3. Where the Letter “E” occurs at the end of the emergency action code, evacuation of people from the neighbourhood of an incident should be considered.

Regulations 2(1) and 6

SCHEDULE 2

THE MULTI-LOAD EMERGENCY ACTION CODE

1. The multi-load emergency action code shall consist of:—

- (a) a number from “1” to “4”; followed by
- (b) a letter; followed, in certain cases, by
- (c) the letter “E”.

2. For the purposes of paragraph 3 below any of the letters “S”, “T”, “Y” and “Z” when shown in column 3 of Part I or Part II of Schedule 1 as a black letter shall be treated as a different letter when shown in that column as a white letter on a black background.

3.—(1) The number of the multi-load emergency action code is the highest number of any occurring in the emergency action codes for each individual prescribed hazardous substance as shown in column 3 of Part I or Part II of Schedule 1.

(2) To determine the first letter of the multi-load emergency action code take the first letter of the emergency action code for each individual substance—

- (a) if it is the same letter in each case then that letter is the first letter of the multi-load emergency action code;
- (b) if there are 2 different letters then take one of the letters and select the vertical column in the code chart in sub-paragraph (3) below, which is headed (on the top horizontal line) by that letter, then take the other letter and select the horizontal line of letters which has that letter in the left hand vertical column, then the letter in the square where the first mentioned vertical column and that horizontal line meet ("the resultant letter") is the first letter of the multi-load action code;
- (c) if there are 3 different letters then take any 2 of them and proceed as in paragraph (b) above, then take the resultant letter and do the same again using the resultant letter and the letter for the third substance, then the letter in the square where the vertical column headed (on the top horizontal line) by the resultant letter and the horizontal line of letters which has the letter for the third substance in its left hand vertical column meet, is the first letter of the multi-load action code;
- (d) if there are more than 3 different letters proceed as above taking the resultant letter each time with one of the other letters until all the other letters have been used, then the letter in the square when the last other letter is used is the first letter of the multi-load action code.

(3) The code chart is—

	P	R	S	S	T	T	W	X	Y	Y	Z	Z
P	P	P	P	P	P	P	W	W	W	W	W	W
R	P	R	P	P	R	R	W	X	W	W	X	X
S	P	P	S	S	S	S	W	W	Y	Y	Y	Y
S	P	P	S	S	S	S	W	W	Y	Y	Y	Y
T	P	R	S	S	T	T	W	X	Y	Y	Z	Z
T	P	R	S	S	T	T	W	X	Y	Y	Z	Z
W	W	W	W	W	W	W	W	W	W	W	W	W
X	W	X	W	W	X	X	W	X	W	W	X	X
Y	W	W	Y	Y	Y	Y	W	W	Y	Y	Y	Y
Y	W	W	Y	Y	Y	Y	W	W	Y	Y	Y	Y
Z	W	X	Y	Y	Z	Z	W	X	Y	Y	Z	Z
Z	W	X	Y	Y	Z	Z	W	X	Y	Y	Z	Z

(4) Nothing in this paragraph shall be construed as authorising the carrying of any two substances in one load if it would create a danger to mix them.

(5) The letter "E" shall be included as the last letter of the multi-load action code if it occurs in the emergency action codes of any one of the substances in the multi-load.

4. Where a multi-load consists of the substances specified in sub-paragraph (a) of column 1 below or 2 or more of the substances specified in sub-paragraph (b) of that column then the load may be treated as if it were a single load with the substance identification number and emergency action code shown opposite thereto in columns 2 and 3 respectively.

1 Substances which may be carried using the substance identification number and emergency action code shown in columns 2 and 3	2 Substance identification No.	3 Emergency action code
(a) 1300 Turpentine substitute (White spirit) ... 1268 Petroleum distillates, n.o.s., with a Benzene content if less than 5%	1268	3 Y E
(b) 1202 Gas oil 1203 Petrol 1223 Kerosene 1270 Petroleum fuel n.o.s.	1270	3 Y E

Regulations 2(1), 4 and 6

SCHEDULE 3

HAZARD WARNING SIGNS

PART I

1. The hazard warning signs that shall be used on hazard warning panels and compartment labels are set out in Part II of this Schedule.

2. The hazard warning sign to be displayed on a road tanker carrying a multi-load shall be the sign for "other hazardous substances and multi-loads of substances of different hazards" unless the hazard as ascertained from column 4 of Part I of Schedule 1 for each individual substance in the multi-load is the same, when it shall be the sign for that hazard.

3. Each hazard warning sign shall be in the form of a square set with its sides at an angle of 45° to the vertical and the length of the sides shall be—

- (a) in the case of signs on hazard warning panels, 200 millimetres; or
- (b) in the case of signs on compartment labels 95 millimetres.

4. Signs for hazard warning panels shall, for any part of the sign that is not black, have a black border at least 5 millimetres wide, except that for a period of 4 years from the date on which these Regulations come into operation such lines may be at least 2 millimetres wide.

5. The signs shall conform in colour to the table below and such colours shall conform to the specifications given in Part II of Schedule 4.

Description of sign	Symbol	Lettering	Background
Flammable liquids	Black or white	Black or white	Red
Flammable solids	Black	Black	White with vertical red stripes
Flammable gases	Black or white	Black or white	Red
Toxic gases	Black	Black	White
Non-flammable compressed gases	Black or white	Black or white	Green
Toxic substances	Black	Black	White
Harmful substances	Black	—	White
Corrosive substances	Black	White	White upper half, black lower half
Organic peroxides	Black	Black	Yellow
Oxidizing substances	Black	Black	Yellow
Substances which in contact with water emit flammable gases	Black or white	Black or white	Blue
Spontaneously combustible substances	Black	Black or white	White upper half, red lower half
Other hazardous substances and multi-loads of different hazards	Black	—	White

PART II



FLAMMABLE LIQUIDS



FLAMMABLE SOLIDS



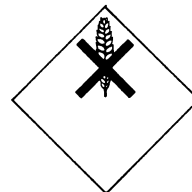
FLAMMABLE GASES



TOXIC GASES

NON-FLAMMABLE
COMPRESSED GASES

TOXIC SUBSTANCES

HARMFUL SUBSTANCES —
KEEP AWAY FROM FOOD

CORROSIVE SUBSTANCES



ORGANIC PEROXIDES



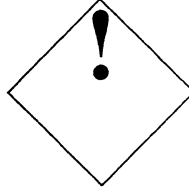
OXIDIZING SUBSTANCES



SUBSTANCES WHICH IN CONTACT WITH WATER EMIT FLAMMABLE GASES



SPONTANEOUSLY COMBUSTIBLE SUBSTANCES



OTHER HAZARDOUS SUBSTANCES & MULTI-LOADS OF SUBSTANCES OF DIFFERENT HAZARDS

Regulations 4, 5, 6 and 7

SCHEDULE 4

PART I

FORM AND SPECIFICATION OF HAZARD WARNING PANELS AND COMPARTMENT LABELS

1. The form of the hazard warning panel is as set out below and the spaces shall be used for the purposes indicated by the notes below.

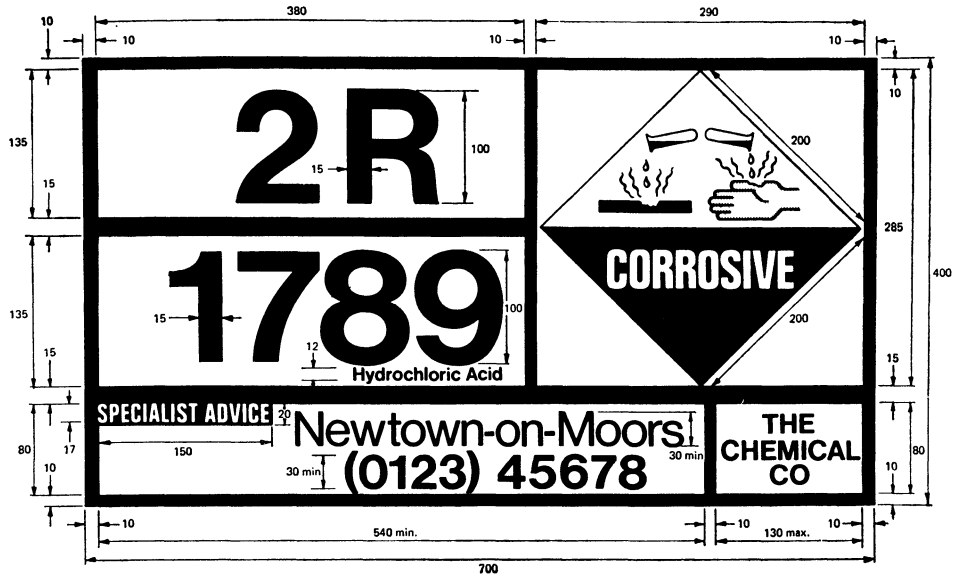
(1)	(3)
(2)	
(4)	(5)

Notes:—

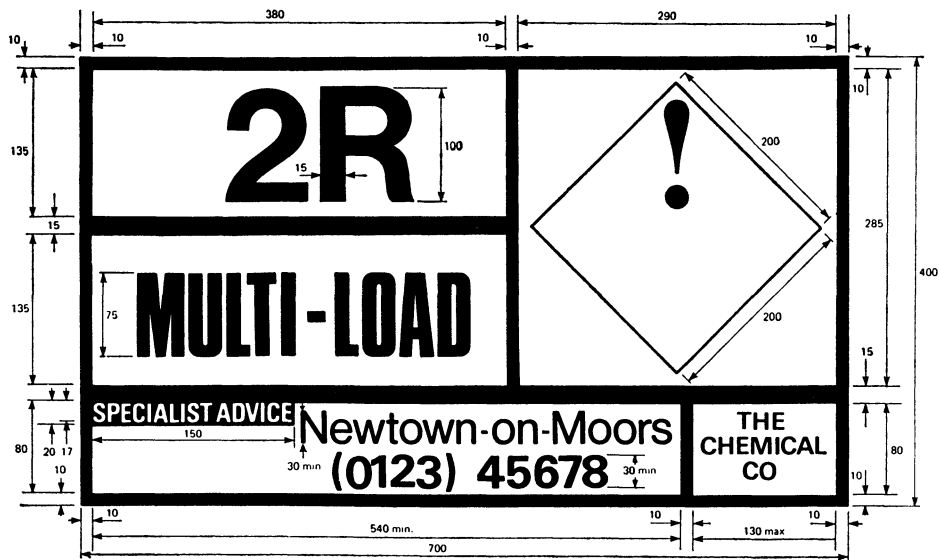
- (1) Space for emergency action code (for 4 years from the coming into operation of these Regulations this space may also include "hazchem").
- (2) Space for substance identification number and if included name or in the case of multi-loads the word "multi-load" (for 4 years from the coming into operation of these Regulations this space may also include "UN No").
- (3) Space for hazard warning sign.
- (4) Space for telephone number or other approved text.
- (5) Space for optional manufacturer's or owner's name or house symbol, or both.

2. The colour of the hazard warning panel shall be orange and conform to the specification for that colour in Part II below, except for the space for the hazard warning sign which shall be white, and the borders, internal dividing lines letters and figures which shall be black.

3. The specification for hazard warning panels for single loads is set out below with dimensions in millimetres.

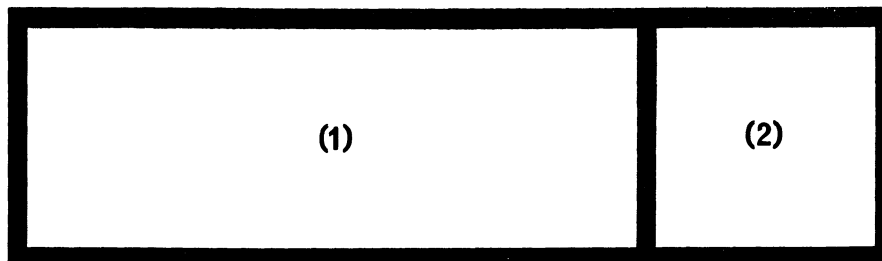


4. The specification for hazard warning panels for multi-loads is set out below with dimensions in millimetres.



5. Where the emergency action code or the multi-load emergency action code ascertained from Schedule 1 or 2 is a white letter on a black background it shall be displayed on the panel as orange on a black background; the letter shall appear in a black rectangle having a height of 110 millimetres and a width 10 millimetres greater than the width of the letter.

6. The form of the compartment label for multi-loads of substances of different hazards is set out below and the spaces shall be used for the purposes indicated by the notes below.



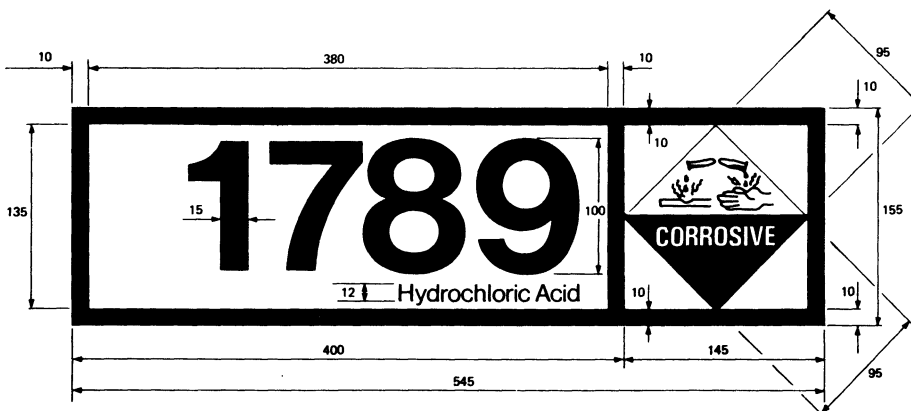
Notes:

- (1) Space for substance identification number and, if included, name.
- (2) Space for hazard warning sign.

7. Where the multi-load consists of substances of the same hazards the square labelled (2) in paragraph 6 above may be omitted from the compartment label.

8. The colour of the compartment label shall be orange and shall conform to the specification for that colour in Part II below except for the space for the hazard warning sign, where one is required, which shall be white and the borders which shall be black.

9. The specification for compartment labels is set out below with dimensions in millimetres.



PART II

SPECIFICATIONS FOR COLOURS OF HAZARD WARNING PANELS COMPARTMENT LABELS AND HAZARD WARNING SIGNS

The colours of the various parts of the panel, in conditions of normal use, shall have chromaticity co-ordinates lying within the area formed by joining, on the Commission International de l'Eclairage chromaticity diagram(a) the co-ordinates listed in the table below and for non-retroreflective materials the luminance factor B(b)

(a) CIE 45.14.200.

(b) CIE 45.60.425.

shall be greater than or equal to that specified in the table for that colour. The tests shall be carried out using standard illuminant D65(a).

Colour	Chromaticity co-ordinates of colour points determining the permitted colour area illuminant:				Luminance factor B for non-retro-reflective materials
	1	2	3	4	
Red	x	0.658	0.576	0.605	0.690
	y	0.342	0.339	0.310	0.310
Orange	x	0.520	0.520	0.578	0.618
	y	0.380	0.400	0.422	0.380
Yellow	x	0.481	0.439	0.477	0.531
	y	0.518	0.471	0.433	0.468
Green	x	0.007	0.248	0.286	0.201
	y	0.703	0.409	0.435	0.776
Blue	x	0.078	0.198	0.240	0.137
	y	0.171	0.252	0.210	0.038

Angle of illumination: 45° with the normal to the surface and viewed in the direction of the normal.

EXPLANATORY NOTE

(This Note is not part of the Regulations.)

1. These Regulations impose requirements for notices to be displayed on road tankers which are being used for the conveyance by road of prescribed hazardous substances (those substances specified in Schedule 1).

2. The Regulations impose a duty on the operator of a road tanker to ensure that it carries hazard warning panels and, in the case of compartmented tanks carrying different substances, labels in respect of the compartments. The operator is required to instruct the driver in the significance of the panels and labels. The consignor of a prescribed hazardous substance is required to give the operator the information necessary for him to prepare the panels and labels; and the driver is required so far as is reasonably practicable to keep them clean and to ensure that they continue to be displayed.

3. The Regulations apply from the commencement of loading until the tank has been completely cleaned out whether or not the vehicle is on a road; they do not apply in certain emergency situations or where the vehicle is engaged in an international transport operation and is labelled in accordance with the European Agreement concerning the International Carriage of Dangerous Goods by Road, signed at Geneva on 30th September 1957. Copies of that Agreement can be obtained from Her Majesty's Stationery Office and copies of the documents of the Commission Internationale de l'Eclairage (referred to in Part II of Schedule 4) can be obtained from the Library, the National Illumination Committee, 246 Great Cambridge Road, Enfield, Middlesex.

(a) CIE 45.15.145.

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