

S.I. No. 364/2006 — European Communities (Dangerous Substances and Preparations) (Marketing and Use)(Amendment) Regulations 2006

STATUTORY INSTRUMENTS

S.I. No. 364 of 2006

European Communities (Dangerous Substances and Preparations) (Marketing and Use)(Amendment) Regulations 2006

I, Micheál Martin, Minister for Enterprise, Trade and Employment in exercise of the powers conferred on me by Section 3 of the European Communities Act 1972 (No. 27 of 1972) and for the purpose of giving further effect to Council Directive 76/769/EEC of 27 July 1976¹ as amended by Directive 2005/59/EC of the European Parliament and of the Council of 26 October 2005², Directive 2005/69/EC of the European Parliament and of the Council of 16 November 2005³, Directive 2005/84/EC of the European Parliament and of the Council of 14 December 2005⁴ and Directive 2005/90/EC of the European Parliament and of the Council of 18 January 2006⁵ hereby make the following Regulations:

1. (1) These Regulations may be cited as the European Communities (Dangerous Substances and Preparations) (Marketing and Use) (Amendment) Regulations 2006.
- (2) The Principal Regulations, the Regulations of 2003, the Regulations of 2004 and these Regulations may be cited together as the European Communities (Dangerous Substances and Preparations)(Marketing and Use) Regulations 2003 to 2006.
2. (1) In these Regulations -

“Principal Regulations” means the European Communities (Dangerous Substances and Preparations)(Marketing and Use) Regulations 2003 (S.I. No. 220 of 2003) as amended by the European Communities (Dangerous Substances and Preparations) (Marketing and Use)(Amendment) Regulations 2003 (S.I. No. 503 of 2003) and as amended by the European Communities (Dangerous Substances and Preparations) (Marketing and Use)(Amendment) Regulations 2004 (S.I. No. 852 of 2004);

“Regulations of 2003” means the European Communities (Dangerous Substances and Preparations)(Marketing and Use)(Amendment) Regulations 2003 (S.I. No. 503 of 2003);

“Regulations of 2004” means the European Communities (Dangerous Substances and Preparations)(Marketing and Use)(Amendment) Regulations 2003 (S.I. No. 852 of 2004).

- (2) A word or expression that is used in these Regulations and is also used in Council Directive 76/769/EEC of 27 July 1976¹, Commission Directive 2005/59/EC of 26 October 2005², Commission Directive 2005/69/EC of 16 November 2005³, Directive 2005/84/EC of the European Parliament and of the Council of 14 December 2005⁴ and Directive 2005/90/EC of the European Parliament and of the Council of 18 Jan 2006⁵ has, unless the contrary intention appears, the same meaning in these Regulations as in the Directive concerned.
3.
 - (1) Paragraphs (h), (i) and (j) of Regulation 4(1) of the Regulations of 2003 are amended by substituting “toxic to reproduction” for “toxic for reproduction” in each place where it occurs.
 - (2) Schedule 3 to the Principal Regulations, as amended, is further amended by substituting “toxic to reproduction” for “toxic for reproduction” in each place where it occurs.
4.
 - (1) Schedule 1 to the Principal Regulations is amended by -
 - (a) inserting the provisions set out in Schedule A after reference number 47,
 - (b) inserting the provisions set out in Schedule B after reference number 49,
 - (c) inserting the provisions set out in Schedule C after reference number 50.
 - (2) Paragraph (1)(a) shall come into operation on 15 June 2007.
 - (3) Paragraph (1)(b) shall come into operation on 1 January 2010.
 - (4) Paragraph 1(c) and Regulation 4 shall come into operation on 16 January 2007.
5. Regulation 2 (1) of the Principle Regulations is amended by the insertion of the following definition -

“childcare article” means any product intended to facilitate sleep, relaxation, hygiene, the feeding of children or sucking on the part of children.
6.
 - (1) Schedule 3 to the Principle Regulations is amended -
 - (a) by inserting the notes set out in Schedule D to the Foreword in the said Schedule 3,
 - (b) by substituting note K set out in Schedule E for Note K set out in the said Schedule 3,

- (c) under the heading “Point 29 (of Schedule 1) - Carcinogens List 1: category 1 carcinogens” -
 - (i) by inserting the provisions set out in Schedule F,
 - (ii) by substituting for entries with index numbers 024-001-000-0, 601-020-00-8, 612-022-00-3 and 612-042-00-2 those set out in Schedule G,
 - (d) under the heading “Point 29 (of Schedule 1) - Carcinogens List 2: category 2 carcinogens” -
 - (i) by inserting the provisions set out in Schedule H,
 - (ii) by substituting the entries specified in Schedule I,
 - (iii) by inserting the number 164058-22-4 in the column entitled ‘CAS number’ into the entry with index number 611-063-00-4,
 - (iv) by deleting the entries set out in Schedule J,
 - (e) under the heading “Point 30 (of Schedule 1) - Mutagens: List 4, category 2 mutagens” -
 - (i) by inserting the provisions set out in Schedule K,
 - (ii) by substituting the entries specified in Schedule L -
 - (f) under the heading “Point 31 (of Schedule 1) - Toxic to reproduction: List 5, category 1 substances toxic to reproduction”, by substituting for entries with index numbers 082-001-00-6 and 082-002-00-1 those set out in Schedule M,
 - (g) under the heading “Point 31 (of Schedule 1) - Toxic to reproduction: List 6, category 2 substances toxic to reproduction”-
 - (i) by inserting the provisions set out in Schedule N,
 - (ii) by substituting for entries with index numbers 048-006-00-2, 048-008-003 and 603-063-00-8 those set out in Schedule O.
- (2) Paragraph (1) shall come into operation on 24 August 2007.

Schedule A[Regulation 4\(1\)](#)[\(a\)](#)

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| 48. Toluene CAS
No 108-88-3 | May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,1 % by mass in adhesives and spray paints intended for sale to the general public. |
| 49.
Trichlorobenzene
CAS No 120-82-1 | May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,1 % by mass for all uses except -

— as an intermediate of synthesis, or

— as a process solvent in closed chemical applications for chlorination reactions, or

— in the manufacture of 1,3,5 — trinitro — 2,4,6 — triaminobenzene (TATB). |

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Schedule B[Regulation 4\(1\)](#)[\(b\)](#)

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| 50. Polycyclic-aromatic
hydrocarbons

(PAH) | 1. Extender oils may not be placed on the market and used for the production of tyres or parts of tyres, if they contain:

— more than 1 mg/kg BaP, or
— more than 10 mg/kg of the sum of all listed PAHs. |
| 1. Benzo(a)pyrene (BaP)

CAS No 50-32-8 | These limits are regarded as kept, if the polycyclic aromatics (PCA) extract is less than 3 % by mass, as measured by the Institute of Petroleum standard IP346: 1998 (Determination of PCA in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method), provided that compliance with the limit values |
| 2. Benzo(e)pyren (BeP)

CAS No 192-97-2 | |
| 3. Benzo(a)anthracene (BaA)

CAS No 56-55-3 | |
| 4. Chrysen (CHR)

CAS No 218-01-9 | |

<p>5. Benzo(b)fluoranthene (BbFA) CAS No 205-99-2</p> <p>6. Benzo(j)fluoranthene (BjFA) CAS No 205-82-3</p> <p>7. Benzo(k)fluoranthene (BkFA) CAS No 207-08-9</p> <p>8. Dibenzo(a, h)anthracene (DBAhA) CAS No 53-70-3</p>	<p>of BaP and of the listed PAHs, as well as the correlation of the measured values with the PCA extract, is controlled by the manufacturer or importer every six months or after each major operational change, whichever is earlier.</p> <p>2. Furthermore, the tyres and treads for retreading manufactured after 1 January 2010 may not be placed on the market if they contain extender oils exceeding the limits indicated in paragraph 1.</p> <p>These limits are regarded as kept, if the vulcanised rubber compounds do not exceed the limit of 0,35 % Bay protons as measured and calculated by ISO 21461 (Rubber vulcanised — Determination of aromaticity of oil in vulcanised rubber compounds).</p> <p>3. By way of derogation, paragraph 2 shall not apply to retreaded tyres if their tread does not contain extender oils exceeding the limits indicated in paragraph 1.’</p>
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Schedule C

Regulation 4(1)
(c) “

<p>51. The following phthalates (or other CAS - and EINECS numbers covering the substance):</p> <p>bis (2-ethylhexyl) phthalate (DEHP)</p> <p>CAS No 117-81-7</p> <p>Einecs No 204-211-0</p> <p>dibutyl phthalate (DBP)</p>	<p>Shall not be used as substances or as constituents of preparations, at concentrations of greater than 0,1 % by mass of the plasticised material, in toys and childcare articles.</p> <p>Such toys and childcare articles containing these phthalates in a concentration greater than the limit mentioned above shall not be placed on the market.</p>
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CAS No 84-74-2

Einecs No 201-557-4

benzyl butyl phthalate (BBP)

CAS No 85-68-7

Einecs No 201-622-7

51a. The following phthalates (or other CAS- and EINECS numbers covering the substance):

di-“isononyl” phthalate (DINP)

CAS No 28553-12-0 and 68515-48-0

Einecs No 249-079-5 and 271-090-9

di-“isodecyl” phthalate (DIDP)

CAS No 26761-40-0 and 68515-49-1

Einecs No 247-977-1 and 271-091-4

di-n-octyl phthalate (DNOP)

CAS No 117-84-0

Einecs No 204-214-7

Shall not be used as substances or as constituents of preparations, at concentrations of greater than 0,1 % by mass of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

Such toys and childcare articles containing these phthalates in a concentration greater than the limit mentioned above shall not be placed on the market.

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Regulation 6(1)
(a)

Schedule D

“Schedule 3

Foreword

Notes:

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 to 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 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).”

Schedule E

Regulation 6(1)
(b)

“**Schedule 3**

Foreword

Notes:

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.”

Schedule F

Regulation 6(1)
(c)(i)

“Point 29 (of Schedule 1) - Carcinogens List 1, category 1 carcinogens:

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	649-062-00-6	270-755-0	68477-73-6	H, K
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(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 C₂ through C₄, predominantly C₃.)

Gases (petroleum), catalytic cracker; Petroleum gas	649-063-00-1	270-756-6	68477-74-7	H, K
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(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.)

Gases (petroleum), catalytic cracker, C ₁₋₅ -rich; Petroleum gas	649-064-00-7	270-757-1	68477-75-8	H, K
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(A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C₁ through C₆, predominantly C₁ through C₅.)

Gases (petroleum), catalytic polymerised naphtha stabiliser overhead, C ₂₋₄ -rich; Petroleum gas	649-065-00-2	270-758-7	68477-76-9	H, K
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(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 C₂ through C₆, predominantly C₂ through C₄.)

Gases (petroleum), catalytic reformer, C ₁₋₄ -rich; Petroleum gas	649-066-00-8	270-760-8	68477-79-2	H, K
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(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 C₁ through C₆, predominantly C₁ through C₄.)

Gases (petroleum), C ₃₋₅ olefinic-paraffinic alkylation feed; Petroleum gas	649-067-00-3	270-765-5	68477-83-8	H, K
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(A complex combination of olefinic and paraffinic hydrocarbons having carbon numbers in the range of C₃ through C₅ which are used as alkylation feed. Ambient temperatures normally exceed the critical temperature of these combinations.)

Gases (petroleum), C ₄ -rich; Petroleum gas	649-068-00-9	270-767-6	68477-85-0	H, K
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(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 C₃ through C₅, predominantly C₄.)

Gases (petroleum), deethaniser overheads; Petroleum gas	649-069-00-4	270-768-1	68477-86-1	H, K
(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.)				
Gases (petroleum), deisobutaniser tower overheads; Petroleum gas	649-070-00-X	270-769-7	68477-87-2	H, K
(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, propenrich; Petroleum gas	649-071-00-5	270-772-3	68477-90-7	H, K
(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.)				
Gases (petroleum), depropaniser overheads; Petroleum gas	649-072-00-0	270-773-9	68477-91-8	H, K
(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 .)				
Gases (petroleum), gas	649-073-00-6	270-777-0	68477-94-1	H, K

recovery plant depropaniser
overheads; Petroleum gas

(A complex combination of hydrocarbons obtained by fractionation of miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers in the range of C₁ through C₄, predominantly propane.)

Gases (petroleum), Girbatol unit feed; Petroleum gas

649-074-00-1

270-778-6

68477-95-2

H, K

(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 C₂ through C₄.)

Gases (petroleum), isomerised naphtha fractionator, C₄-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 vacuum residue fractionation reflux drum; Petroleum gas

649-076-00-2

270-802-5

68478-21-7

H, K

(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 C₁ through C₆.)

Tail gas (petroleum), catalytic cracked naphtha stabilisation absorber; Petroleum gas

649-077-00-8

270-803-0

68478-22-8

H, K

(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.)

Tail gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfuriser combined fractionater; Petroleum gas

649-078-00-3 270-804-6 68478-24-0 H, K

(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 C₁ through C₅.)

Tail gas (petroleum), catalytic reformed naphtha fractionation stabiliser; Petroleum gas

649-079-00-9 270-806-7 68478-26-2 H, K

(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.)

Tail gas (petroleum), saturate gas plant mixed stream, C₄-rich; Petroleum gas

649-080-00-4 270-813-5 68478-32-0 H, K

(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.)

Tail gas (petroleum), saturate gas recovery plant, C₁₋₂-rich; Petroleum gas

649-081-00-X 270-814-0 68478-33-1 H, K

(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 C₁ through C₅, predominantly methane and ethane.)

Tail gas (petroleum), vacuum residues thermal cracker; Petroleum gas

649-082-00-5 270-815-6 68478-34-2 H, K

(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.)

Hydrocarbons, C₃₋₄-rich, petroleum distillate; Petroleum gas

649-083-00-0 270-990-9 68512-91-4 H, K

(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 C₃ through C₄.)

Gases (petroleum), full-range straight-run naphtha dehexaniser off; Petroleum gas

649-084-00-6 271-000-8 68513-15-5 H, K

(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 C₂ through C₆.)

Gases (petroleum), hydrocracking depropaniser off, hydrocarbon-rich; Petroleum gas	649-085-00-1	271-001-3	68513-16-6	H, K
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(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 C₁ through C₄. It may also contain small amounts of hydrogen and hydrogen sulfide.)

Gases (petroleum), light straight-run naphtha stabiliser off; Petroleum gas	649-086-00-7	271-002-9	68513-17-7	H, K
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(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.)

Residues (petroleum), alkylation splitter, C ₄ -rich; Petroleum gas	649-087-00-2	271-010-2	68513-66-6	H, K
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(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.)

Hydrocarbons, C ₁₋₄ ; Petroleum gas	649-088-00-8	271-032-2	68514-31-8	H, K
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(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 the range of approximately - 164 °C to - 0,5 °C.)

Hydrocarbons, C₁₋₄, sweetened; Petroleum gas 649-089-00-3 271-038-5 68514-36-3 H, K

(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 C₁ through C₄ and boiling in the range of approximately - 164 °C to - 0,5 °C.)

Hydrocarbons, C₁₋₃; Petroleum gas 649-090-00-9 271-259-7 68527-16-2 H, K

(A complex combination of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₃ and boiling in the range of approximately - 164 °C to - 42 °C.)

Hydrocarbons, C₁₋₄, debutaniser fraction; Petroleum gas 649-091-00-4 271-261-8 68527-19-5 H, K

Gases (petroleum), C₁₋₅, wet; Petroleum gas 649-092-00-X 271-624-0 68602-83-5 H, K

(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 C₁ through C₅.)

Hydrocarbons, C ; 649-093-00-5 271-734-9 68606-25-7 H, K

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Petroleum gas

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	649-095-00-6	271-737-5	68606-27-9	H, K
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(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 C₃ through C₄.)

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

Gases (petroleum), refinery blend; Petroleum gas	649-097-00-7	272-183-7	68783-07-3	H, K
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(A complex combination obtained from various processes. It consists of hydrogen, hydrogen sulfide and hydrocarbons having carbon numbers predominantly in the range of C₁ through C₅.)

Gases (petroleum), catalytic cracking; Petroleum gas	649-098-00-2	272-203-4	68783-64-2	H, K
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(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 C₃ through C₅.)

Gases (petroleum), C₂₋₄,
sweetened; Petroleum gas

649-099-00-8 272-205-5 68783-65-3 H, K

(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.)

Gases (petroleum), crude oil
fractionation off; Petroleum
gas

649-100-00-1 272-871-7 68918-99-0 H, K

(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.)

Gases (petroleum),
dehexaniser off; Petroleum
gas

649-101-00-7 272-872-2 68919-00-6 H, K

(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.)

Gases (petroleum), light
straight run gasoline
fractionation stabiliser off;
Petroleum gas

649-102-00-2 272-878-5 68919-05-1 H, K

(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 C₁ through C₅.)

Gases (petroleum), naphtha unifier desulfurisation stripper off; Petroleum gas	649-103-00-8	272-879-0	68919-06-2	H, K
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(A complex combination of hydrocarbons produced by a naphtha unifier desulfurisation process and stripped from the naphtha product. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C₁ through C₄.)

Gases (petroleum), straight-run naphtha catalytic reforming off; Petroleum gas	649-104-00-3	272-882-7	68919-09-5	H, K
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(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	649-105-00-9	272-893-7	68919-20-0	H, K
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(A complex combination of hydrocarbons produced by the fractionation of the charge to the C₃-C₄ splitter. It consists predominantly of C₃ hydrocarbons.)

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

Gases (petroleum), catalytic cracked naphtha debutaniser; Petroleum gas	649-107-00-X	273-169-3	68952-76-1	H, K
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(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.)

Tail gas (petroleum), catalytic cracked distillate and naphtha stabiliser; Petroleum gas	649-108-00-5	273-170-9	68952-77-2	H, K
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(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 C₁ through C₄.)

Tail gas (petroleum), thermal-cracked distillate, gas oil and naphtha absorber; Petroleum gas	649-109-00-0	273-175-6	68952-81-8	H, K
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(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.)

Tail gas (petroleum), thermal cracked hydrocarbon fractionation stabiliser, petroleum coking; Petroleum gas	649-110-00-6	273-176-1	68952-82-9	H, K
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(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 C₁ through C₆.)

Gases (petroleum), light steam-cracked, butadiene concentration; Petroleum gas	649-111-00-1	273-265-5	68955-28-2	H, K
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(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.)

Gases (petroleum), straight-run naphtha catalytic reformer stabiliser overhead; Petroleum gas	649-112-00-7	273-270-2	68955-34-0	H, K
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(A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and the fractionation of the total effluent. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C₂ through C₄.)

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

Hydrocarbons, C ₄ , steam-	649-116-00-9	295-405-4	92045-23-3	H, K
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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 C₄, predominantly 1-butene and 2-butene, containing also butane and isobutene and boiling in the range of approximately - 12 °C to 5 °C.)

Petroleum gases, liquefied, sweetened, C ₄ fraction; Petroleum gas	649-117-00-4	295-463-0	92045-80-2	H, K, S
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(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 predominantly of C₄ 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
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Gases (petroleum), amine system feed; Refinery gas	649-120-00-0	270-746-1	68477-65-6	H, K
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(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 C₁ through C₅ may also be present.)

Gases (petroleum), benzene	649-121-00-6	270-747-7	68477-66-7	H, K
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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 C₁ through C₆, including benzene, may also be present.)

Gases (petroleum), benzene unit recycle, hydrogen-rich;
Refinery gas

649-122-00-1 270-748-2 68477-67-8 H, K

(A complex combination of hydrocarbons obtained by recycling the gases of the benzene unit. It consists primarily of hydrogen with various small amounts of carbon monoxide and hydrocarbons having carbon numbers in the range of C₁ through C₆.)

Gases (petroleum), blend oil, hydrogen-nitrogen-rich;
Refinery gas

649-123-00-7 270-749-8 68477-68-9 H, K

(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 C₁ through C₅.)

Gases (petroleum), catalytic reformed naphtha stripper overheads; Refinery gas

649-124-00-2 270-759-2 68477-77-0 H, K

(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 through C .)

Gases (petroleum), C ₆₋₈ catalytic reformer recycle; Refinery gas	649-125-00-8	270-761-3	68477-80-5	H, K
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(A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C₆-C₈ feed and recycled to conserve hydrogen. It consists primarily of hydrogen. It may also contain various small amounts of carbon monoxide, carbon dioxide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C₁ through C₆.)

Gases (petroleum), C ₆₋₈ catalytic reformer; Refinery gas	649-126-00-3	270-762-9	68477-81-6	H, K
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(A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C₆-C₈ feed. It consists of hydrocarbons having carbon numbers in the range of C₁ through C₅ and hydrogen.)

Gases (petroleum), C ₆₋₈ catalytic reformer recycle, hydrogen-rich; Refinery gas	649-127-00-9	270-763-4	68477-82-7	H, K
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Gases (petroleum), C ₂ -return stream; Refinery gas	649-128-00-4	270-766-0	68477-84-9	H, K
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(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.)

Gases (petroleum), dry sour, gas-concentration-unit-off; Refinery gas	649-129-00-X	270-774-4	68477-92-9	H, K
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(The complex combination of dry gases from a gas concentration unit. It consists of hydrogen, hydrogen sulphide and hydrocarbons having carbon numbers predominantly in the range of C₁ through C₃.)

Gases (petroleum), gas concentration reabsorber distillation; Refinery gas	649-130-00-5	270-776-5	68477-93-0	H, K
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(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 C₁ through C₃.)

Gases (petroleum), hydrogen absorber off; Refinery gas	649-131-00-0	270-779-1	68477-96-3	H, K
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(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 C₂ hydrocarbons.)

Gases (petroleum), hydrogen- rich; Refinery gas	649-132-00-6	270-780-7	68477-97-4	H, K
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(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 C₂ hydrocarbons.)

Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen- rich; Refinery gas	649-133-00-1	270-781-2	68477-98-5	H, K
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(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.)

Gases (petroleum), recycle, hydrogen-rich; Refinery gas	649-134-00-7	270-783-3	68478-00-2	H, K
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(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.)

Gases (petroleum), reformer make-up, hydrogen-rich; Refinery gas	649-135-00-2	270-784-9	68478-01-3	H, K
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(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.)

Gases (petroleum), reforming hydrotreater; Refinery gas	649-136-00-8	270-785-4	68478-02-4	H, K
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(A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen, methane, and ethane with various small amounts of hydrogen

sulphide and aliphatic hydrocarbons having carbon numbers predominantly in the range C₃ through C₅.)

Gases (petroleum), reforming hydrotreater, hydrogen-methane-rich; Refinery gas 649-137-00-3 270-787-5 68478-03-5 H, K

(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 C₂ through C₅.)

Gases (petroleum), reforming hydrotreater make-up, hydrogen-rich; Refinery gas 649-138-00-9 270-788-0 68478-04-6 H, K

(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 C₁ through C₅.)

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

(A complex combination produced by distillation of products from a thermal cracking process. It consists of hydrogen, hydrogen sulphide, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C₁ through C₆.)

Tail gas (petroleum), catalytic cracker refractionation absorber; 649-140-00-X 270-805-1 68478-25-1 H, K

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 C₁ through C₃.)

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

Tail gas (petroleum), catalytic reformed naphtha stabiliser; Refinery gas	649-142-00-0	270-808-8	68478-28-4	H, K
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(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 C₁ through C₆.)

Tail gas (petroleum), cracked distillate hydrotreater separator; Refinery gas	649-143-00-6	270-809-3	68478-29-5	H, K
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(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 C₁ through C₅.)

Tail gas (petroleum), hydrodesulphurised straight-run naphtha separator;	649-144-00-1	270-810-9	68478-30-8	H, K
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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 C₁ through C₆.)

Gases (petroleum), catalytic reformed straight-run naphtha stabiliser overheads; Refinery gas	649-145-00-7	270-999-8	68513-14-4	H, K
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(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	649-146-00-2	271-003-4	68513-18-8	H, K
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(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.)

Gases (petroleum), reformer effluent low-pressure flash drum off; Refinery gas	649-147-00-8	271-005-5	68513-19-9	H, K
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(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.)

Gases (petroleum), oil refinery gas distillation off; Refinery gas	649-148-00-3	271-258-1	68527-15-1	H, K
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(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 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.)

Gases (petroleum), benzene unit hydrotreater depentaniser overheads; Refinery gas	649-149-00-9	271-623-5	68602-82-4	H, K
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(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 in the range of C₁ through C₆. It may contain trace amounts of benzene.)

Gases (petroleum), secondary absorber off, fluidised catalytic cracker overheads fractionator; Refinery gas	649-150-00-4	271-625-6	68602-84-6	H, K
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(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 C₁ through C₃.)

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

Gases (petroleum), hydrocracking low-pressure separator; Refinery gas

649-152-00-5 272-182-1 68783-06-2 H, K

(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 C₁ through C₃.)

Gases (petroleum), refinery; Refinery gas

649-153-00-0 272-338-9 68814-67-5 H, K

(A complex combination obtained from various petroleum refining operations. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C₁ through C₃.)

Gases (petroleum), platformer products separator off; Refinery gas

649-154-00-6 272-343-6 68814-90-4 H, K

(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 C₂ through C₄.)

Gases (petroleum), hydrotreated sour kerosine depentaniser stabiliser off; Refinery gas

649-155-00-1 272-775-5 68911-58-0 H, K

(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.)

Gases (petroleum), hydrotreated sour kerosine flash drum; Refinery gas	649-156-00-7	272-776-0	68911-59-1	H, K
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(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 carbon numbers predominantly in the range of C₂ through C₅.)

Gases (petroleum), distillate unifier desulphurisation stripper off; Refinery gas	649-157-00-2	272-873-8	68919-01-7	H, K
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(A complex combination stripped from the liquid product of the unifier desulphurisation process. It consists of hydrogen sulphide, methane, ethane, and propane.)

Gases (petroleum), fluidised catalytic cracker fractionation off; Refinery gas	649-158-00-8	272-874-3	68919-02-8	H, K
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(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 hydrocarbons having carbon numbers predominantly in the range of C₁ through C₅.)

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, hydrogen sulphide, and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-160-00-9	272-876-4	68919-04-0	H, K
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 of nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .)	649-162-00-X	272-881-1	68919-08-4	H, K

Gases (petroleum), tar stripper off; Refinery gas	649-163-00-5	272-884-8	68919-11-9	H, K
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(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 C₁ through C₄.)

Gases (petroleum), unifiner stripper off; Refinery gas	649-164-00-0	272-885-3	68919-12-0	H, K
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(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	649-165-00-6	273-173-5	68952-79-4	H, K
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(A complex combination of hydrocarbons obtained from the hydrodesulphurisation of naphtha. It consists of hydrogen, methane, ethane, and propane.)

Tail gas (petroleum), straight- run naphtha hydrodesulphuriser; Refinery gas	649-166-00-1	273-174-0	68952-80-7	H, K
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(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 C₁ through C₅.)

Gases (petroleum), sponge absorber off, fluidised catalytic cracker and gas oil desulphuriser overhead fractionation; Refinery gas	649-167-00-7	273-269-7	68955-33-9	H, K
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(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 C₁ through C₄.)

Gases (petroleum), crude distillation and catalytic cracking; Refinery gas	649-168-00-2	273-563-5	68989-88-8	H, K
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(A complex combination produced by crude distillation and catalytic cracking processes. It consists of hydrogen, hydrogen sulphide, nitrogen, carbon monoxide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C₁ through C₆.)

Gases (petroleum), gas oil diethanolamine scrubber off; Refinery gas	649-169-00-8	295-397-2	92045-15-3	H, K
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(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 C₁ through C₅.)

Gases (petroleum), gas oil hydrodesulphurisation effluent; Refinery gas	649-170-00-3	295-398-8	92045-16-4	H, K
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(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.)

Gases (petroleum), gas oil hydrodesulphurisation purge; Refinery gas	649-171-00-9	295-399-3	92045-17-5	H, K
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(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 C₁ through C₄.)

Gases (petroleum), hydrogenator effluent flash drum off; Refinery gas

649-172-00-4

295-400-7

92045-18-6

H, K

(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 C₁ through C₆.)

Gases (petroleum), naphtha steam cracking high-pressure residual; Refinery gas

649-173-00-X

295-401-2

92045-19-7

H, K

(A complex combination obtained as a mixture of the non-condensable portions from the product of a naphtha steam cracking process as well as residual gases obtained during the preparation of subsequent products. It consists predominantly of hydrogen and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C₁ through C₅ with which natural gas may also be mixed.)

Gases (petroleum), residue visbaking off; Refinery gas

649-174-00-5

295-402-8

92045-20-0

H, K

(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
C₁ through C₅.)

Gases (petroleum), C ₃₋₄ ; Petroleum gas	649-177-00-1	268-629-5	68131-75-9	H, K
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(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 C₃ through C₄, predominantly of propane and propylene, and boiling in the range of approximately - 51 °C to - 1 °C.)

Tail gas (petroleum), catalytic cracked distillate and catalytic cracked naphtha fractionation absorber; Petroleum gas	649-178-00-7	269-617-2	68307-98-2	H, K
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(The complex combination of hydrocarbons from the distillation of the products from catalytic cracked distillates and catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C₁ through C₄.)

Tail gas (petroleum), catalytic polymerisation naphtha fractionation stabiliser; Petroleum gas	649-179-00-2	269-618-8	68307-99-3	H, K
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(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 C₁ through C₄.)

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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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.)

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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(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.)

Tail gas (petroleum), straight-run distillate hydrodesulphuriser, hydrogen sulphide-free; Petroleum gas	649-182-00-9	269-630-3	68308-10-1	H, K
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(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 C₁ through C₄.)

Tail gas (petroleum), gas oil catalytic cracking absorber; Petroleum gas	649-183-00-4	269-623-5	68308-03-2	H, K
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(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.)

Tail gas (petroleum), gas recovery plant; Petroleum gas 649-184-00-X 269-624-0 68308-04-3 H, K

(A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₅.)

Tail gas (petroleum), gas recovery plant deethaniser; Petroleum gas 649-185-00-5 269-625-6 68308-05-4 H, K

(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 C₁ through C₄.)

Tail gas (petroleum), hydrodesulphurised distillate and hydrodesulphurised naphtha fractionator, acid-free; Petroleum gas 649-186-00-0 269-626-1 68308-06-5 H, K

(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.)

Tail gas (petroleum), hydrodesulphurised vacuum gas oil stripper, hydrogen sulphide-free; Petroleum gas 649-187-00-6 269-627-7 68308-07-6 H, K

(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 of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₆.)

Tail gas (petroleum), light straight-run naphtha stabiliser, hydrogen sulphide-free; Petroleum gas	649-188-00-1	269-629-8	68308-09-8	H, K
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(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 C₁ through C₅.)

Tail gas (petroleum), propane-propylene alkylation feed prep deethaniser; Petroleum gas	649-189-00-7	269-631-9	68308-11-2	H, K
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(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.)

Tail gas (petroleum), vacuum gas oil hydrodesulphuriser, hydrogen sulphide-free; Petroleum gas	649-190-00-2	269-632-4	68308-12-3	H, K
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(A complex combination of hydrocarbons 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.)

Gases (petroleum), catalytic cracked overheads; Petroleum gas	649-191-00-8	270-071-2	68409-99-4	H, K
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(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 C₅ 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
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Alkanes, C ₂₋₃ ; Petroleum gas	649-194-00-4	270-652-0	68475-58-1	H, K
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Alkanes, C ₃₋₄ ; Petroleum gas	649-195-00-X	270-653-6	68475-59-2	H, K
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Alkanes, C ₄₋₅ ; Petroleum gas	649-196-00-5	270-654-1	68475-60-5	H, K
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Fuel gases; Petroleum gas	649-197-00-0	270-667-2	68476-26-6	H, K
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(A combination of light gases. It consists predominantly of hydrogen and/or low molecular weight hydrocarbons.)

Fuel gases, crude oil of distillates; Petroleum gas	649-198-00-6	270-670-9	68476-29-9	H, K
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(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 C₁ through C₄ 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
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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	649-202-00-6	270-704-2	68476-85-7	H, K, S

(A complex combination of hydrocarbons produced by the distillation of crude oil. 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.)

Petroleum gases, liquefied, sweetened; Petroleum gas	649-203-00-1	270-705-8	68476-86-8	H, K, S
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(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.)

Gases (petroleum), C ₃₋₄ , isobutane-rich; Petroleum gas	649-204-00-7	270-724-1	68477-33-8	H, K
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(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.)

Distillates (petroleum), C₃₋₆,
piperylene-rich; Petroleum
gas

649-205-00-2 270-726-2 68477-35-0

H, K

(A complex combination of hydrocarbons from the distillation of saturated and unsaturated aliphatic hydrocarbons usually ranging in the carbon numbers C₃ through C₆. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C₃ through C₆, predominantly piperylenes.)

Gases (petroleum), butane
splitter overheads; Petroleum
gas

649-206-00-8 270-750-3 68477-69-0

H, K

(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 C₃ through C₄.)

Gases (petroleum), C₂₋₃;
Petroleum gas

649-207-00-3 270-751-9 68477-70-3

H, K

(A complex combination of hydrocarbons produced by the distillation of products from a catalytic fractionation process. It contains predominantly ethane, ethylene, propane, and propylene.)

Gases (petroleum), catalytic-
cracked gas oil depropaniser
bottoms, C₄-rich acid-free;
Petroleum gas

649-208-00-9 270-752-4 68477-71-4

H, K

(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.)

Gases (petroleum), catalytic-cracked naphtha debutaniser bottoms, C ₃₋₅ -rich; Petroleum gas	649-209-00-4	270-754-5	68477-72-5	H, K
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(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 C₃ through C₅.)

Tail gas (petroleum), isomerised naphtha fractionation stabiliser; Petroleum gas	649-210-00-X	269-628-2	68308-08-7	H, K
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(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 C₁ through C₄.)

Schedule G

[Regulation 6\(1\)](#) [\(c\)\(ii\)](#)

“Point 29 (of Schedule 1) - Carcinogens

List 1, category 1 carcinogens:

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

”

Schedule H

[Regulation 6\(1\)](#)
[\(d\)\(i\)](#)

“Point 29 (of Schedule 1) - Carcinogens

List 2, category 2 carcinogens

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)	601-014-00-5	201-143-3	78-79-5	D
2-methyl-1,3-butadiene				
Chloroprene (stabilised)	602-036-00-8	204-818-0	126-99-8	D, E
2-chlorobuta-1,3-diene				
1,2,3-trichloropropane	602-062-00- X	202-486-1	96-18-4	D
α, α, α, 4-tetrachlorotoluene	602-093-00-9	226-009-1	5216-25-1	E
p-chlorobenzotrichloride				
4,4'- bis(dimethylamino)benzophenone	606-073-00-0	202-027-5	90-94-8	
Michler's ketone				

Oxiranemethanol, 4-methylbenzene-sulfonate, (S)-	607-411-00-X	417-210-7	70987-78-9	
2-nitrotoluene	609-065-00-5	201-853-3	88-72-2	E
(Methylenebis(4,1-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)	612-151-00-5	246-910-3 (1)	25376-45-8 (1)	E
		202-453-1 (2)	95-80-7 (2)	
Methyl-phenylenediamine (1)				
		212-513-9 (3)	823-40-5 (3)	
4-methyl-m-phenylene diamine (2)				
2-methyl-m-phenylene diamine (3)				
4-chloro-o-toluidine (1)	612-196-00-0	202-441-6 (1)	95-69-2(1)	E
4-chloro-o-toluidine hydrochloride (2)		221-627-8 (2)	3165-93-3 (2)	
2,4,5-trimethylaniline (1)	612-197-00-6	205-282-0 (1)-(2)	137-17-7 (1)	E
2,4,5-trimethylaniline hydrochloride (2)			21436-97-5 (2)	
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	612-199-00-7	202-977-0 (1)	101-80-4 (1)	E

p-aminophenyl ether (1)					
2,4-diaminoanisole (1)	612-200-00-0	210-406-1	615-05-4		
		(1)	(1)		
4-methoxy-m-phenylenediamine		254-323-9	39156-41-		
		(2)	7 (2)		
2,4-diaminoanisole sulphate (2)					
N,N,N',N'-tetramethyl-4,4'-methylenedianiline	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-(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	—		
Creosote oil, acenaphthene fraction	648-098-00- X	292-605-3	90640-84- 9		H
Wash oil					
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

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Schedule I

[Regulation 6\(1\)](#)
[\(d\)\(ii\)](#)

“Point 29 (of Schedule 1) - Carcinogens

List 2, category 2 carcinogens

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
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

Substances	Index number	EC number	CAS number	Notes
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 oxira-nemethanol	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)	121-14-2 (1)	E
		246-836-1 (2)	25321-14-6 (2)	
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-naphthylazo)-4''-(6-benzoylamino-3-sulfonato-2-naphthylazo)biphenyl-1,3',3'', 1'''-tetraolato-O, O', O'', O''')copper(II)	611-063-00-4	413-590-3	—	
2-methoxyaniline; o-anisidine,	612-035-00-4	201-963-1	90-04-0	E
4,4'-diaminodiphenylmethane;	612-051-00-1	202-974-4	101-77-9	E
4,4'-methylenedianiline				
N-nitrosodimethylamine;	612-077-00-3	200-549-8	62-75-9	E

dimethylnitrosamine

2-methylaziridine; propyleneimine	613-033-00-6	200-878-7	75-55-8	E
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Creosote oil, acenaphthene fraction, acenaphthene-free; Wash oil redistillate	648-043-00-X	292-606-9	90640-85-0	H
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(The oil remaining after removal by a crystallisation process of acenaphthene from acenaphthene oil from coal tar. Composed primarily of naphthalene and alkyl naphthalenes.)

Residues (coal tar), creosote oil distillation; Wash oil redistillate	648-080-00-1	295-506-3	92061-93-3	H
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(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.)

Creosote oil, high-boiling distillate; Wash oil	648-100-00-9	274-565-9	70321-79-8	H
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(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 approximately 5 °C.)

Substances	Index number	EC number	CAS number	Notes
Extract residues (coal),	648-102-00-X	310-189-4	122384-	H

creosote oil acid; Wash oil
extract residue 77-4

(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.)

Creosote oil, low-boiling distillate; Wash oil 648-138-00-6 274-566-4 70321-80-1 H

(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 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 C₂₆₋₅₅, aromatic-rich 649-006-00-0 307-753-7 97722-04-8 H

Schedule J[Regulation 6\(1\)](#)
[\(d\)\(iv\)](#)**“Point 29 (of Schedule 1) - Carcinogens****List 2, category 2 carcinogens**

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.”

Schedule K[Regulation 6\(1\)](#)
[\(e\)\(i\)](#)**“Point 30 (of Schedule 1) - Mutagens**

List 4, category 2 mutagens

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
p-aminophenyl ether (1)				
Carbendazim (ISO);	613-048-00-8	234-232-0	10605-21-7	
methyl benzimidazol-2-ylcarbamate				
Benomyl (ISO);	613-049-00-3	241-775-7	17804-35-2	
methyl 1-(butylcarbamoyl)benzimidazol-2-ylcarbamate				
Gases (petroleum), catalytic cracked naphtha depropaniser overhead, C ₃ -rich acid-free; Petroleum gas	649-062-00-6	270-755-0	68477-73-6	H,K
(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 .)				
Gases (petroleum), catalytic cracker; Petroleum gas	649-063-00-1	270-756-6	68477-74-7	H,K
(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.)

Gases (petroleum), catalytic cracker, C ₁₋₅ -rich; Petroleum gas	649-064-00-7	270-757-1	68477-75-8	H,K
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(A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C₁ through C₆, predominantly C₁ through C₅.)

Gases (petroleum), catalytic polymerised naphtha stabiliser overhead, C ₂₋₄ -rich; Petroleum gas	649-065-00-2	270-758-7	68477-76-9	H,K
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(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 C₂ through C₆, predominantly C₂ through C₄.)

Substances	Index number	EC number	CAS number	Notes
Gases (petroleum), catalytic reformer, C ₁₋₄ -rich; Petroleum gas	649-066-00-8	270-760-8	68477-79-2	H, K
(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 C₁ through
C₄.)

Gases (petroleum), C ₃₋₅ olefinic-paraffinic alkylation feed; Petroleum gas	649-067-00-3	270-765-5	68477-83-8	H, K
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(A complex combination of
olefinic and paraffinic
hydrocarbons having carbon
numbers in the range of C₃
through C₅ which are used as
alkylation feed. Ambient
temperatures normally
exceed the critical
temperature of these
combinations.)

Gases (petroleum), C ₄ -rich; Petroleum gas	649-068-00-9	270-767-6	68477-85-0	H, K
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(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 C₃ through C₅,
predominantly C₄.)

Gases (petroleum), deethaniser overheads; Petroleum gas	649-069-00-4	270-768-1	68477-86-1	H, K
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(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.)

Gases (petroleum), deisobutaniser tower overheads; Petroleum gas	649-070-00-X	270-769-7	68477-87-2	H, K
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(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 through C .)

Gases (petroleum), depropaniser dry, propene- rich; Petroleum gas	649-071-00-5	270-772-3	68477-90-7	H, K
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(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.)

Gases (petroleum), depropaniser overheads; Petroleum gas	649-072-00-0	270-773-9	68477-91-8	H, K
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(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.)

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 C₁ through C₄, predominantly propane.)

Gases (petroleum), Girbatol unit feed; Petroleum gas	649-074-00-1	270-778-6	68477-95-2	H, K
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(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 C₂ through C₄.)

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
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Tail gas (petroleum), catalytic cracked clarified oil and thermal cracked vacuum residue fractionation reflux drum; Petroleum gas	649-076-00-2	270-802-5	68478-21-7	H, K
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(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 C₁ through C₆.)

Tail gas (petroleum), catalytic cracked naphtha stabilisation absorber; Petroleum gas	649-077-00-8	270-803-0	68478-22-8	H, K
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(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.)

Tail gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfuriser combined fractionater; Petroleum gas	649-078-00-3	270-804-6	68478-24-0	H, K
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(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 C₁ through C₅.)

Tail gas (petroleum), catalytic reformed naphtha fractionation stabiliser; Petroleum gas	649-079-00-9	270-806-7	68478-26-2	H, K
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(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.)

Tail gas (petroleum), saturate gas plant mixed stream, C ₄ -rich; Petroleum gas	649-080-00-4	270-813-5	68478-32-0	H, K
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(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 isobutene.)

Tail gas (petroleum), saturate gas recovery plant, C ₁₋₂ -rich; Petroleum gas	649-081-00-X	270-814-0	68478-33-1	H, K
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(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 C₁ through C₅, predominantly methane and ethane.)

Tail gas (petroleum), vacuum residues thermal cracker; Petroleum gas	649-082-00-5	270-815-6	68478-34-2	H, K
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(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.)

Hydrocarbons, C ₃₋₄ -rich, petroleum distillate; Petroleum gas	649-083-00-0	270-990-9	68512-91-4	H, K
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(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 C₃ through C₄.)

Gases (petroleum), full-range straight-run naphtha dehexaniser off; Petroleum gas	649-084-00-6	271-000-8	68513-15-5	H, K
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(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 C₂ through C₆.)

Gases (petroleum), hydrocracking depropaniser off, hydrocarbon-rich; Petroleum gas	649-085-00-1	271-001-3	68513-16-6	H, K
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(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 C₁ through C₄. It may also contain small amounts of hydrogen and hydrogen sulfide.)

Gases (petroleum), light	649-086-00-7	271-002-9	68513-17-7	H, K
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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.)

Residues (petroleum), alkylation splitter, C ₄ -rich; Petroleum gas	649-087-00-2	271-010-2	68513-66-6	H, K
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(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.)

Hydrocarbons, C ₁₋₄ ; Petroleum gas	649-088-00-8	271-032-2	68514-31-8	H, K
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(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 the range of approximately - 164 °C to - 0,5 °C.)

Hydrocarbons, C ₁₋₄ , sweetened; Petroleum gas	649-089-00-3	271-038-5	68514-36-3	H, K
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(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 through C and boiling in

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the range of approximately - 164 °C to - 0,5 °C.)					
Hydrocarbons, C ₁₋₃ ; Petroleum gas	649-090-00-9	271-259-7	68527-16-2	H, K	
(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.)					
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	649-092-00-X	271-624-0	68602-83-5	H, K	
(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 .)					
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	649-095-00-6	271-737-5	68606-27-9	H, K	
(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 .)					
Gases (petroleum), depropaniser bottoms fractionation off; Petroleum gas	649-096-00-1	271-742-2	68606-34-8	H, K	
(A complex combination of					

hydrocarbons obtained from the fractionation of depropaniser bottoms. It consists predominantly of butane, isobutane and butadiene.)

Gases (petroleum), refinery blend; Petroleum gas 649-097-00-7 272-183-7 68783-07-3 H, K

(A complex combination obtained from various processes. It consists of hydrogen, hydrogen sulfide and hydrocarbons having carbon numbers predominantly in the range of C₁ through C₅.)

Gases (petroleum), catalytic cracking; Petroleum gas 649-098-00-2 272-203-4 68783-64-2 H, K

(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 C₃ through C₅.)

Gases (petroleum), C₂₋₄, sweetened; Petroleum gas 649-099-00-8 272-205-5 68783-65-3 H, K

(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.)

Gases (petroleum), crude oil fractionation off; Petroleum gas 649-100-00-1 272-871-7 68918-99-0 H, K

(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.)

Gases (petroleum), dehexaniser off; Petroleum gas

649-101-00-7 272-872-2 68919-00-6 H, K

(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.)

Gases (petroleum), light straight run gasoline fractionation stabiliser off; Petroleum gas

649-102-00-2 272-878-5 68919-05-1 H, K

(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 C₁ through C₅.)

Gases (petroleum), naphtha unifiner desulfurisation stripper off; Petroleum gas

649-103-00-8 272-879-0 68919-06-2 H, K

(A complex combination of hydrocarbons produced by a naphtha unifiner desulfurisation process and stripped from the naphtha product. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C₁ through C₄.)

Gases (petroleum), straight-run naphtha catalytic reforming off; Petroleum gas

649-104-00-3 272-882-7 68919-09-5 H, K

(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

649-105-00-9 272-893-7 68919-20-0 H, K

(A complex combination of hydrocarbons produced by the fractionation of the charge to the C₃-C₄ splitter. It consists predominantly of C₃ hydrocarbons.)

Gases (petroleum), straight-run stabiliser off; Petroleum gas

649-106-00-4 272-883-2 68919-10-8 H, K

(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.)

Gases (petroleum), catalytic cracked naphtha debutaniser; Petroleum gas

649-107-00-X 273-169-3 68952-76-1 H, K

(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.)

Tail gas (petroleum), catalytic cracked distillate and naphtha stabiliser; Petroleum gas

649-108-00-5 273-170-9 68952-77-2 H, K

(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 C₁ through C₄.)

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

(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.)

Tail gas (petroleum), thermal cracked hydrocarbon fractionation stabiliser, petroleum coking; Petroleum gas 649-110-00-6 273-176-1 68952-82-9 H, K

(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 C₁ through C₆.)

Gases (petroleum), light steam-cracked, butadiene concentration; Petroleum gas 649-111-00-1 273-265-5 68955-28-2 H, K

(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.)

Gases (petroleum), straight-run naphtha catalytic reformer stabiliser overhead; Petroleum gas 649-112-00-7 273-270-2 68955-34-0 H, K

(A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and the fractionation of the total effluent. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C₂ through C₄.)

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

Hydrocarbons, C ₄ , steam-cracker distillate; Petroleum gas	649-116-00-9	295-405-4	92045-23-3	H, K
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(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 C₄, predominantly 1-butene and 2-butene, containing also butane and isobutene and boiling in the range of approximately - 12 °C to 5 °C.)

Petroleum gases, liquefied, sweetened, C ₄ fraction; Petroleum gas	649-117-00-4	295-463-0	92045-80-2	H, K, S
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(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
predominantly of C₄
saturated and unsaturated
hydrocarbons.)

Raffinates (petroleum), steam-cracked C ₄ fraction cuprous ammonium acetate extn., C ₃₋₅ and C ₃₋₅ unsaturated, butadiene-free; Petroleum gas	649-119-00-5	307-769-4	97722-19-5	H, K
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Gases (petroleum), amine system feed; Refinery gas	649-120-00-0	270-746-1	68477-65-6	H, K
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(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
C₁ through C₅ may also be
present.)

Gases (petroleum), benzene unit hydrodesulphuriser off; Refinery gas	649-121-00-6	270-747-7	68477-66-7	H, K
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(Off gases produced by the
benzene unit. It consists
primarily of hydrogen.
Carbon monoxide and
hydrocarbons having carbon
numbers predominantly in
the range of C₁ through C₆,
including benzene, may also
be present.)

Gases (petroleum), benzene unit recycle, hydrogen-rich; Refinery gas	649-122-00-1	270-748-2	68477-67-8	H, K
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(A complex combination of
hydrocarbons obtained by
recycling the gases of the
benzene unit. It consists
primarily of hydrogen with

various small amounts of carbon monoxide and hydrocarbons having carbon numbers in the range of C₁ through C₆.)

Gases (petroleum), blend oil, hydrogen-nitrogen-rich; Refinery gas

649-123-00-7 270-749-8 68477-68-9 H, K

(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 C₁ through C₅.)

Gases (petroleum), catalytic reformed naphtha stripper overheads; Refinery gas

649-124-00-2 270-759-2 68477-77-0 H, K

(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 C₁ through C₄.)

Gases (petroleum), C₆₋₈ catalytic reformer recycle; Refinery gas

649-125-00-8 270-761-3 68477-80-5 H, K

(A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C₆-C₈ feed and recycled to conserve hydrogen. It consists primarily of hydrogen. It may also contain various small amounts of carbon monoxide, carbon dioxide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C₁ through C₆.)

Gases (petroleum), C₆₋₈

649-126-00-3 270-762-9 68477-81-6 H, K

catalytic reformer; Refinery
gas

(A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C₆-C₈ feed. It consists of hydrocarbons having carbon numbers in the range of C₁ through C₅ and hydrogen.)

Gases (petroleum), C ₆₋₈ catalytic reformer recycle, hydrogen-rich; Refinery gas	649-127-00-9	270-763-4	68477-82-7	H, K
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Gases (petroleum), C ₂ -return stream; Refinery gas	649-128-00-4	270-766-0	68477-84-9	H, K
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(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.)

Gases (petroleum), dry sour, gas-concentration-unit-off; Refinery gas	649-129-00-X	270-774-4	68477-92-9	H, K
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(The complex combination of dry gases from a gas concentration unit. It consists of hydrogen, hydrogen sulphide and hydrocarbons having carbon numbers predominantly in the range of C₁ through C₃.)

Gases (petroleum), gas concentration reabsorber distillation; Refinery gas	649-130-00-5	270-776-5	68477-93-0	H, K
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(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 C₁ through C₃.)

Gases (petroleum), hydrogen absorber off; Refinery gas	649-131-00-0	270-779-1	68477-96-3	H, K
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(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 C₂ hydrocarbons.)

Gases (petroleum), hydrogen-rich; Refinery gas	649-132-00-6	270-780-7	68477-97-4	H, K
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(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 C₂ hydrocarbons.)

Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas	649-133-00-1	270-781-2	68477-98-5	H, K
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(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.)

Gases (petroleum), recycle, hydrogen-rich; Refinery gas	649-134-00-7	270-783-3	68478-00-2	H, K
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(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.)

Gases (petroleum), reformer make-up, hydrogen-rich; Refinery gas	649-135-00-2	270-784-9	68478-01-3	H, K
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(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.)

Gases (petroleum), reforming hydrotreater; Refinery gas	649-136-00-8	270-785-4	68478-02-4	H, K
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(A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen, methane, and ethane with various small amounts of hydrogen sulphide and aliphatic hydrocarbons having carbon numbers predominantly in the range C₃ through C₅.)

Gases (petroleum), reforming hydrotreater, hydrogen-methane-rich; Refinery gas	649-137-00-3	270-787-5	68478-03-5	H, K
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(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 C₂ through C₅.)

Gases (petroleum), reforming hydrotreater make-up, hydrogen-rich; Refinery gas	649-138-00-9	270-788-0	68478-04-6	H, K
(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	649-139-00-4	270-789-6	68478-05-7	H, K
(A complex combination produced by distillation of products from a thermal cracking process. It consists of hydrogen, hydrogen sulphide, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .)				
Tail gas (petroleum), catalytic cracker refractionation absorber; Refinery gas	649-140-00-X	270-805-1	68478-25-1	H, K
(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 .)				
Tail gas (petroleum), catalytic reformed naphtha separator; Refinery gas	649-141-00-5	270-807-2	68478-27-3	H, K
(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.)

Tail gas (petroleum), catalytic reformed naphtha stabiliser; Refinery gas	649-142-00-0	270-808-8	68478-28-4	H, K
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(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 C₁ through C₆.)

Tail gas (petroleum), cracked distillate hydrotreater separator; Refinery gas	649-143-00-6	270-809-3	68478-29-5	H, K
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(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 C₁ through C₅.)

Tail gas (petroleum), hydrodesulphurised straight-run naphtha separator; Refinery gas	649-144-00-1	270-810-9	68478-30-8	H, K
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(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 C₁ through C₆.)

Gases (petroleum), catalytic reformed straight-run naphtha stabiliser overheads; Refinery gas	649-145-00-7	270-999-8	68513-14-4	H, K
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(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	649-146-00-2	271-003-4	68513-18-8	H, K
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(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.)

Gases (petroleum), reformer effluent low-pressure flash drum off; Refinery gas	649-147-00-8	271-005-5	68513-19-9	H, K
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(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.)

Gases (petroleum), oil refinery gas distillation off; Refinery gas	649-148-00-3	271-258-1	68527-15-1	H, K
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(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 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.)

Gases (petroleum), benzene unit hydrotreater depentaniser overheads; Refinery gas	649-149-00-9	271-623-5	68602-82-4	H, K
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(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 in the range of C₁ through C₆. It may contain trace amounts of benzene.)

Gases (petroleum), secondary absorber off, fluidised catalytic cracker overheads fractionator; Refinery gas	649-150-00-4	271-625-6	68602-84-6	H, K
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(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 C₁ through C₃.)

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

Gases (petroleum), hydrocracking low-pressure separator; Refinery gas	649-152-00-5	272-182-1	68783-06-2	H, K
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(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 C₁ through C₃.)

Gases (petroleum), refinery; Refinery gas	649-153-00-0	272-338-9	68814-67-5	H, K
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(A complex combination obtained from various petroleum refining operations. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C₁ through C₃.)

Gases (petroleum), platformer products separator off; Refinery gas	649-154-00-6	272-343-6	68814-90-4	H, K
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(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 C₂ through C₄.)

Gases (petroleum), hydrotreated sour kerosine depentaniser stabiliser off; Refinery gas	649-155-00-1	272-775-5	68911-58-0	H, K
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(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.)

Gases (petroleum), hydrotreated sour kerosine flash drum; Refinery gas	649-156-00-7	272-776-0	68911-59-1	H, K
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(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 carbon numbers predominantly in the range of C₂ through C₅.)

Gases (petroleum), distillate unifier desulphurisation stripper off; Refinery gas	649-157-00-2	272-873-8	68919-01-7	H, K
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(A complex combination stripped from the liquid product of the unifier desulphurisation process. It consists of hydrogen sulphide, methane, ethane, and propane.)

Gases (petroleum), fluidised catalytic cracker fractionation off; Refinery gas	649-158-00-8	272-874-3	68919-02-8	H, K
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(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 hydrocarbons having carbon numbers predominantly in the range of C₁ through C₅.)

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

Gases (petroleum), heavy distillate hydrotreater desulphurisation stripper off; Refinery gas	649-160-00-9	272-876-4	68919-04-0	H, K
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(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 C₁ through C₅.)

Gases (petroleum), platformer stabiliser off, light ends fractionation; Refinery gas

649-161-00-4 272-880-6 68919-07-3 H, K

(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.)

Gases (petroleum), preflash tower off, crude distillation; Refinery gas

649-162-00-X 272-881-1 68919-08-4 H, K

(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 C₁ through C₅.)

Gases (petroleum), tar stripper off; Refinery gas

649-163-00-5 272-884-8 68919-11-9 H, K

(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 C₁ through C₄.)

Gases (petroleum), unifiner stripper off; Refinery gas

649-164-00-0 272-885-3 68919-12-0 H, K

(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	649-165-00-6	273-173-5	68952-79-4	H, K
(A complex combination of hydrocarbons obtained from the hydrodesulphurisation of naphtha. It consists of hydrogen, methane, ethane, and propane.)				
Tail gas (petroleum), straight-run naphtha hydrodesulphuriser; Refinery gas	649-166-00-1	273-174-0	68952-80-7	H, K
(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 .)				
Gases (petroleum), sponge absorber off, fluidised catalytic cracker and gas oil desulphuriser overhead fractionation; Refinery gas	649-167-00-7	273-269-7	68955-33-9	H, K
(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	649-168-00-2	273-563-5	68989-88-8	H, K
(A complex combination produced by crude distillation and catalytic cracking processes. It consists of hydrogen, hydrogen sulphide, nitrogen, carbon monoxide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in				

the range of C₁ through C₆.)

Gases (petroleum), gas oil diethanolamine scrubber off; Refinery gas	649-169-00-8	295-397-2	92045-15-3	H, K
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(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 C₁ through C₅.)

Gases (petroleum), gas oil hydrodesulphurisation effluent; Refinery gas	649-170-00-3	295-398-8	92045-16-4	H, K
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(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.)

Gases (petroleum), gas oil hydrodesulphurisation purge; Refinery gas	649-171-00-9	295-399-3	92045-17-5	H, K
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(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 C₁ through C₄.)

Gases (petroleum), hydrogenator effluent flash drum off; Refinery gas	649-172-00-4	295-400-7	92045-18-6	H, K
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(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 C₁ through C₆.)

Gases (petroleum), naphtha steam cracking high-pressure residual; Refinery gas	649-173-00-X	295-401-2	92045-19-7	H, K
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(A complex combination obtained as a mixture of the non-condensable portions from the product of a naphtha steam cracking process as well as residual gases obtained during the preparation of subsequent products. It consists predominantly of hydrogen and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C₁ through C₅ with which natural gas may also be mixed.)

Gases (petroleum), residue visbaking off; Refinery gas	649-174-00-5	295-402-8	92045-20-0	H, K
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(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 C₁ through C₅.)

Gases (petroleum), C ₃₋₄ ; Petroleum gas	649-177-00-1	268-629-5	68131-75-9	H, K
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(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 C₃ through C₄, predominantly of propane and propylene, and boiling in the range of approximately -51 °C to -1 °C.)

Tail gas (petroleum), catalytic cracked distillate and catalytic cracked naphtha fractionation absorber; Petroleum gas	649-178-00-7	269-617-2	68307-98-2	H, K
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(The complex combination of hydrocarbons from the distillation of the products from catalytic cracked distillates and catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C₁ through C₄.)

Tail gas (petroleum), catalytic polymerisation naphtha fractionation stabiliser; Petroleum gas	649-179-00-2	269-618-8	68307-99-3	H, K
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(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 C₁ through C₄.)

Tail gas (petroleum), catalytic reformed naphtha fractionation stabiliser, hydrogen sulphide-free; Petroleum gas	649-180-00-8	269-619-3	68308-00-9	H, K
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(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.)

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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(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.)

Tail gas (petroleum), straight-run distillate hydrodesulphuriser, hydrogen sulphide-free; Petroleum gas	649-182-00-9	269-630-3	68308-10-1	H, K
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(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 C₁ through C₄.)

Tail gas (petroleum), gas oil catalytic cracking absorber; Petroleum gas	649-183-00-4	269-623-5	68308-03-2	H, K
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(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.)

Tail gas (petroleum), gas recovery plant; Petroleum gas	649-184-00-X	269-624-0	68308-04-3	H, K
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(A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₅.)

Tail gas (petroleum), gas	649-185-00-5	269-625-6	68308-05-4	H, K
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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 C₁ through C₄.)

Tail gas (petroleum), hydrodesulphurised distillate and hydrodesulphurised naphtha fractionator, acid-free; Petroleum gas

649-186-00-0 269-626-1 68308-06-5 H, K

(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.)

Tail gas (petroleum), hydrodesulphurised vacuum gas oil stripper, hydrogen sulphide-free; Petroleum gas

649-187-00-6 269-627-7 68308-07-6 H, K

(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 of hydrocarbons having carbon numbers predominantly in the range of C₁ through C₆.)

Tail gas (petroleum), light straight-run naphtha stabiliser, hydrogen sulphide-free; Petroleum gas

649-188-00-1 269-629-8 68308-09-8 H, K

(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 C₁ through C₅.)

Tail gas (petroleum), propane-propylene alkylation feed prep deethaniser; Petroleum gas

649-189-00-7 269-631-9 68308-11-2 H, K

(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.)

Tail gas (petroleum), vacuum gas oil hydrodesulphuriser, hydrogen sulphide-free; Petroleum gas

649-190-00-2 269-632-4 68308-12-3 H, K

(A complex combination of hydrocarbons 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.)

Gases (petroleum), catalytic cracked overheads; Petroleum gas

649-191-00-8 270-071-2 68409-99-4 H, K

(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 C₅ 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	649-197-00-0	270-667-2	68476-26-6	H, K

(A combination of light gases. It consists predominantly of hydrogen and/or low molecular weight hydrocarbons.)

Fuel gases, crude oil of distillates; Petroleum gas	649-198-00-6	270-670-9	68476-29-9	H, K
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(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 C₁ through C₄ 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
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Hydrocarbons, C ₄₋₅ ; Petroleum gas	649-200-00-5	270-682-4	68476-42-6	H, K
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Hydrocarbons, C ₂₋₄ C ₃ -rich; Petroleum gas	649-201-00-0	270-689-2	68476-49-3	H, K
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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
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Petroleum gases, liquefied, sweetened; Petroleum gas	649-203-00-1	270-705-8	68476-86-8	H, K, S
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(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.)

Gases (petroleum), C ₃₋₄ , isobutane-rich; Petroleum gas	649-204-00-7	270-724-1	68477-33-8	H, K
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(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.)

Distillates (petroleum), C ₃₋₆ , piperylene-rich; Petroleum gas	649-205-00-2	270-726-2	68477-35-0	H, K
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(A complex combination of hydrocarbons from the distillation of saturated and unsaturated aliphatic hydrocarbons usually ranging in the carbon numbers C₃ through C₆. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C₃ through C₆, predominantly piperylenes.)

Gases (petroleum), butane splitter overheads; Petroleum	649-206-00-8	270-750-3	68477-69-0	H, K
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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 C₃ through C₄.)

Gases (petroleum), C ₂₋₃ ; Petroleum gas	649-207-00-3	270-751-9	68477-70-3	H, K
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(A complex combination of hydrocarbons produced by the distillation of products from a catalytic fractionation process. It contains predominantly ethane, ethylene, propane, and propylene.)

Gases (petroleum), catalytic-cracked gas oil depropaniser bottoms, C ₄ -rich acid-free; Petroleum gas	649-208-00-9	270-752-4	68477-71-4	H, K
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(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.)

Gases (petroleum), catalytic-cracked naphtha debutaniser bottoms, C ₃₋₅ -rich; Petroleum gas	649-209-00-4	270-754-5	68477-72-5	H, K
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(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 C₃ through C₅.)

Tail gas (petroleum),	649-210-00-X	269-628-2	68308-08-7	H, K
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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 C₁ through C₄.)

Schedule L

[Regulation 6\(1\)](#)
[\(e\)\(ii\)](#)

“Point 30 (of Schedule 1) - Mutagens

List 4, category 2 mutagens

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:

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

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Schedule M

[Regulation 6\(1\)](#)
(f)

“Point 31 (of Schedule 1) - Toxic to reproduction:

List 5, category 1 substances toxic to reproduction

The entries with index numbers -

082-001-00-6 and 082-002-00-1

are replaced by the following:

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

”

Schedule N

[Regulation 6\(1\)](#)
(g)(i)

“Point 31 (of Schedule 1) - Toxic to reproduction:

List 6, category 2 substances toxic to reproduction

Substances	Index number	EC number	CAS number	Notes
‘Linuron (ISO);	006-021-00-1	206-356-5	330-55-2	E

3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea

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
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-X	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-3-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)	84777-06-0 (1)-(2)	
		205-017-9 (3)-(4)	131-18-0 (3)	
			42925-80-4 (4)	
n-pentyl-isopentylphthalate (2);				
di-n-pentyl phthalate (3);				
Diisopentylphthalate (4)				

Benzyl butyl phthalate;	607-430-00-3	201-622-7	85-68-7	
BBP				
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-(2-hydroxy-3- (3-methylphenyl)carbamoyl-1- naphthylazo)fluoren-9-one	611-131-00-3	420-580-2	—	
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;	613-199-00-X	421-550-1	—	

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

Schedule O

[Regulation 6\(1\)](#)
[\(g\)\(ii\)](#)

“Point 31 (of Schedule 1) - Toxic to reproduction:

List 6, category 2 substances toxic to reproduction

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
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

”

Given under my Official
Seal,

11th July 2006

L.S. MICHEÁL MARTIN

Minister for Enterprise, Trade and Employment.

EXPLANATORY NOTE

(This note is not part of the Instrument and does not purport to be a legal interpretation).

These Regulations amend Schedules 1 and 3 to the European Communities (Dangerous Substances and Preparations) Marketing and Use) Regulations, 2003 (S.I. No. 220 of 2003), as previously amended by the European Communities (Dangerous Substances and Preparations)(Marketing and Use)(Amendment) Regulations 2003 (S.I. No. 503 of 2003) and the European Communities (Dangerous Substances and Preparations) (Marketing and Use)(Amendment) Regulations 2004 (S.I. No. 852 of 2004).

The Regulations transpose -

- (i) Directive 2005/59/EC of the European Parliament and of the Council of 26 October 2005 which amends for the 28th time Council Directive 79/769/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 (toluene and trichlorobenzene),
- (ii) Directive 2005/69/EC of the European Parliament and of the Council of 16 November 2005 which amends for the 27th time Council Directive 76/769/EEC on the approximation of the laws, regulations and administrative provision of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations (polycyclic aromatic hydrocarbons in extender oils and tyres),
- (iii) Directive 2005/84/EC of the European Parliament and of the Council of 14 December 2005 amending for the 22nd 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 (phthalates in toys and childcare articles), and
- (iv) 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).

Directive 2005/59/EC is transposed through Regulation 3(1)(a) and Schedule A to these Regulations, which come into operation from 15 June 2007.

Directive 2005/69/EC is transposed through Regulation 3(1)(b) and Schedule B to these Regulations, which come into operation from 1 January 2010.

Directive 2005/84/EC is transposed through Regulations 3(1)(c) and 4 and Schedule C to these Regulations, which come into operation from 16 January 2007.

Directive 2005/90/EC is transposed through Regulation 5 and Schedules D to O to these Regulations, which come into operation from 24 August 2007.

The Regulations also amend -

(a) Paragraphs (h), (i) and (j) of Regulation 4(1) of the European Communities (Dangerous Substances and Preparations)(Marketing and Use)(Amendment) Regulations 2003 (S.I. No. 503 of 2003), and

(b) Schedule 3 to the European Communities (Dangerous Substances and Preparations)(Marketing and Use) Regulations 2003 (S.I. No. 220 of 2003), as amended by S.I. No. 503 of 2003 ,

by substituting “toxic to reproduction” for “toxic for reproduction” in each place where it occurs.

¹ OJ No. L 262, 27.9.1976, p.201

² OJ No. L 309, 25.11.2005, p.13

³ OJ No. L 323, 9.12.2005, p.51

⁴ OJ No. L 344, 27.12.2005, p.40

⁵ OJ No. L 33, 4.2.2006, p.28

¹ OJ No. L 262, 27.9.1976, p.201

² OJ No. L 309, 25.11.2005, p.13

³ OJ No. L 323, 9.12.2005, p.51

⁴ OJ No. L 344, 27.12.2005, p.40

⁵ OJ No. L 33, 4.2.2006, p.28