

I

(Acts adopted under the EC Treaty/Euratom Treaty whose publication is obligatory)

DIRECTIVES

COMMISSION DIRECTIVE 2008/58/EC

of 21 August 2008

amending, for the purpose of its adaptation to technical progress, for the 30th time, Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances

(Text with EEA relevance)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Council Directive 67/548/EEC of 27 June 1967 on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances ⁽¹⁾, and in particular Article 28 thereof,

Whereas:

- (1) Annex I to Directive 67/548/EEC contains a list of dangerous substances, together with particulars of the classification and labelling of each substance. That list needs to be updated to include further notified new substances and further existing substances, as well as to adapt certain entries to technical progress. In addition, it is necessary, in that Annex, to delete entries for certain substances. The classification and labelling of substances containing benzene should be changed in order to reflect that benzene is classified as a mutagen and some entries should be split because the newly added or revised physico-chemical classification no longer applies to all the substances under those entries.
- (2) The classification and labelling of the substances listed in this Directive should be reviewed if new scientific knowledge becomes available. In this respect, considering recent preliminary, partial and not peer-reviewed information submitted by industry, special attention should be paid to further results of epidemiological studies on the Borates concerned by this Directive including the ongoing study conducted in China and the outcome of the IARC

discussion of the classification of Nickel substances or any new relevant scientific findings or interpretations given to the data used to establish the current proposals for the Nickel compounds concerned by this Directive.

- (3) Certain notes in the foreword of Annex I should be amended or added to clarify the obligations on manufacturers, distributors and importers of certain substances, to reflect that benzene has, in addition to other effects, been classified as mutagenic, and to reflect that the classification and labelling in Annex I relating to physico-chemical properties need not be applied when testing shows that the specific form of a substance marketed has different physico-chemical properties. Note 6 in the foreword of Annex I should be deleted as the provisions of this note no longer apply from the date on which Commission Directive 2001/60/EC ⁽²⁾ enters into force. Consequently, the reference to Note 6 should be deleted from certain entries in the Annex. A new Note 7 should be added to the foreword of Annex I to reflect that alloys containing nickel are to be classified for sensitisation on the basis of their release rate rather than on the concentration of nickel.
- (4) The measures provided for in this Directive are in accordance with the opinion of the Committee on the Adaptation to Technical Progress of the Directives for the Elimination of Technical Barriers to Trade with Dangerous Substances and Preparations,

⁽¹⁾ OJ L 196, 16.8.1967, p. 1.

⁽²⁾ OJ L 226, 22.8.2001, p. 5.

HAS ADOPTED THIS DIRECTIVE:

Article 1

Annex I of Directive 67/548/EEC is amended as follows:

1. the foreword is amended as follows:
 - (a) Note H is replaced by the text set out in Annex 1A;
 - (b) Note J is replaced by the text set out in Annex 1B;
 - (c) Note P is replaced by the text set out in Annex 1C;
 - (d) The text set out in Annex 1D is added as Note T;
 - (e) Note 6 is deleted;
 - (f) The text set out in Annex 1E is added as Note 7;
2. the entries corresponding to the entries set out in Annex 1F are replaced by the entries set out in that Annex;
3. The entries set out in Annex 1G to this Directive are inserted in accordance with the order of the entries set out in Annex I to Directive 67/548/EEC;
4. The entries set out in Annex 1H to this Directive are deleted.

Article 2

1. Member States shall bring into force the laws, regulations and administrative provisions necessary to comply with this

Directive by 1 June 2009 at the latest. They shall forthwith communicate to the Commission the text of those provisions and a correlation table between those provisions and this Directive.

When Member States adopt those provisions, they shall contain a reference to this Directive or be accompanied by such a reference on the occasion of their official publication. Member States shall determine how such reference is to be made.

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

Article 3

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

Article 4

This Directive is addressed to the Member States.

Done at Brussels, 21 August 2008.

For the Commission

Stavros DIMAS

Member of the Commission

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ANNEX 1A

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 manufacturers, distributors and importers of this substance shall be obliged to carry out an investigation to make themselves aware of the relevant and accessible data which exists for all other properties to classify and label the substance. The final label shall follow the requirements of section 7 of Annex VI of this Directive.'

ANNEX 1B

Note J:

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 benzene (Einecs No 200-753-7). This note applies only to certain complex coal- and oil-derived substances in Annex I.'

ANNEX 1C

Note P:

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 benzene (Einecs No 200-753-7).

When the substance is classified as a carcinogen or mutagen, Note E shall also apply.

When the substance is not classified as a carcinogen or mutagen at least the S-phrases (2-)23-24-62 shall apply.

This note applies only to certain complex oil-derived substances in Annex I.'

ANNEX 1D

Note T:

This substance may be marketed in a form which does not have the physico-chemical properties as indicated by the classification in the Annex I entry. If the result(s) of the relevant Annex V test method(s) show(s) that the specific form of the substance marketed does not exhibit this (these) property (properties), the substance shall be classified in accordance with the results(s) of this (these) test(s). Relevant information, including reference to the relevant Annex V test(s) method(s), should be included in the safety data sheet.'

ANNEX 1E

Note 7:

Alloys containing nickel are classified for skin sensitisation when the release rate of 0,5 µg Ni/cm²/week, as measured by the European Standard reference test method EN 1811, is exceeded.'

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ANNEX 1F

Index No	Chemical name	Notes related to substances	EC No	CAS No	Classification	Labelling	Concentration Limits	Notes related to preparations
'006-011-00-7	carbaryl (ISO); 1-naphthyl methylcarbamate		200-555-0	63-25-2	Carc. Cat. 3; R40 Xn; R20/22 N; R50	Xn; N R: 20/22-40-50 S: (2-)36/37-46-61	C ≥ 25 %: Xn, N; R20/22-40-50 1 % ≤ C < 25 %: Xn, N; R40-50 0,25 % ≤ C < 1 %: N; R50	
006-045-00-2	methomyl (ISO); 1-(methylthio)ethylideneamino N-methylcarbamate		240-815-0	16752-77-5	T+; R28 N; R50-53	T+; N R: 28-50/53 S: (1/2-)28-36/37-45-60-61	C ≥ 7 %: T+, N; R28-50/53 1 % ≤ C < 7 %: T, N; R25-50/53 0,25 % ≤ C < 1 %: Xn, N; R22-50/53 0,1 % ≤ C < 0,25 %: Xn, N; R22-51/53 0,025 % ≤ C < 0,1 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
006-087-00-1	furathiocarb (ISO); 2,3-dihydro-2,2-dimethyl-7-benzofuryl 2,4-dimethyl-6-oxa-5-oxo-3-thia-2,4-diazadecanoate		265-974-3	65907-30-4	T+; R26 T; R25 Xn; R48/22 Xi; R36/38 R43 N; R50-53	T+; N R: 25-26-36/38-43-48/ 22-50/53 S: (1/2-)28-36/37-38-45-60-61	C ≥ 25 %: T+, N; R25-26-36/38-43-48/22-50/53 20 % ≤ C < 25 %: T+, N; R22-26-36/38-43-48/22-50/53 10 % ≤ C < 20 %: T+, N; R22-26-43-48/22-50/53 7 % ≤ C < 10 %: T+, N; R22-26-43-50/53 3 % ≤ C < 7 %: T, N; R22-23-43-50/53 1 % ≤ C < 3 %: T, N; R23-43-50/53 0,25 % ≤ C < 1 %: Xn, N; R20-50/53 0,1 % ≤ C < 0,25 %: Xn, N; R20-51/53 0,025 % ≤ C < 0,1 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
007-007-00-8	ethyl nitrate		210-903-3	625-58-1	E; R3	E R: 3 S: (2-)23-24/25		
009-001-00-0	fluorine		231-954-8	7782-41-4	O; R8 T+; R26 C; R35	O; T+; C R: 8-26-35 S: (1/2-)9-26-28-36/37/ 39-45		

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013-002-00-1	aluminium powder (stabilised)	T	231-072-3	7429-90-5	F; R11-15	F R: 11-15 S: (2-)7/8-43		
015-003-00-2	calcium phosphide; tricalcium diphosphide		215-142-0	1305-99-3	F; R15/29 T+; R28 N; R50	F; T+; N R: 15/29-28-50 S: (1/2-)22-28-36/37-43-45-61	C ≥ 7 %: T+, N; R28-50 1 % ≤ C < 7 %: T, N; R25-50 0,25 % ≤ C < 1 %: Xn, N; R22-50 0,1 % ≤ C < 0,25 %: Xn; R22	
015-004-00-8	aluminium phosphide		244-088-0	20859-73-8	F; R15/29 T+; R28 R32 N; R50	F; T+; N R: 15/29-28-32-50 S: (1/2-)3/9/14-28-30-36/ 37-43-45-61	C ≥ 7 %: T+, N; R28-50 1 % ≤ C < 7 %: T, N; R25-50 0,25 % ≤ C < 1 %: Xn, N; R22-50 0,1 % ≤ C < 0,25 %: Xn; R22	
015-005-00-3	magnesium phosphide; trimagnesium diphosphide		235-023-7	12057-74-8	F; R15/29 T+; R28 N; R50	F; T+; N R: 15/29-28-50 S: (1/2-)22-28-43-45-61	C ≥ 7 %: T+, N; R28-50 1 % ≤ C < 7 %: T, N; R25-50 0,25 % ≤ C < 1 %: Xn, N; R22-50 0,1 % ≤ C < 0,25 %: Xn; R22	
015-006-00-9	trizinc diphosphide; zinc phosphide	T	215-244-5	1314-84-7	F; R15/29 T+; R28 R32 N; R50-53	F; T+; N R: 15/29-28-32-50/53 S: (1/2-)28-30-36/37-43-45-60-61	C ≥ 7 %: T+, N; R28-50/53 1 % ≤ C < 7 %: T, N; R25-50/53 0,25 % ≤ C < 1 %: Xn, N; R22-50/ 53 0,1 % ≤ C < 0,25 %: Xn, N; R22- R51/53 0,025 % ≤ C < 0,1 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
015-019-00-X	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphite		200-547-7	62-73-7	T+; R26 T; R24/25 R43 N; R50	T+; N R: 24/25-26-43-50 S: (1/2-)28-36/37-45-61	C ≥ 25 %: T+, N; R24/25-26-43-50 7 % ≤ C < 25 %: T+, N; R21/22-26-43-50 3 % ≤ C < 7 %: T, N; R21/22-23-43-50 1 % ≤ C < 3 %: T, N; R23-43-50 0,1 % ≤ C < 1 %: Xn, N; R20-50 0,025 % ≤ C < 0,1 %: N; R50	

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015-048-00-8	fenthion (ISO); O,O-dimethyl-O-(4-methylthion- <i>m</i> -tolyl) phosphorothioate		200-231-9	55-38-9	Muta. Cat. 3; R68 T; R23-48/25 Xn; R21/22 N; R50-53	T; N R: 21/22-23-48/25-68-50/53 S: (1/2-)36/37-45-60-61	C ≥ 25 %: T, N; R21/22-23-48/25-68-50/53 10 % ≤ C < 25 %: T, N; R20-48/25-68-50/53 3 % ≤ C < 10 %: Xn, N; R20-48/22-68-50/53 1 % ≤ C < 3 %: Xn, N; R48/22-68-50/53 0,25 % ≤ C < 1 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
015-056-00-1	azinphos-ethyl (ISO); O,O-diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate		220-147-6	2642-71-9	T+; R28 T; R24 N; R50-53	T+; N R: 24-28-50/53 S: (1/2-)28-36/37-45-60-61	C ≥ 25 %: T+, N; R24-28-50/53 7 % ≤ C < 25 %: T+, N; R21-28-50/53 3 % ≤ C < 7 %: T, N; R21-25-50/53 1 % ≤ C < 3 %: T, N; R25-50/53 0,25 % ≤ C < 1 %: Xn, N; R22-50/53 0,1 % ≤ C < 0,25 %: Xn, N; R22-51/53 0,025 % ≤ C < 0,1 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
015-067-00-1	phosalone (ISO); S-(6-chloro-2-oxobenzoxazolin-3-ylmethyl) O,O-diethyl phosphorodithioate		218-996-2	2310-17-0	T; R25 Xn; R20/21 R43 N; R50-53	T; N R: 20/21-25-43-50/53 S: (1/2-)36/37-45-60-61	C ≥ 25 %: T, N; R21-25-50/53 3 % ≤ C < 25 %: Xn, N; R22-50/53 0,025 % ≤ C < 3 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
015-114-00-6	chlormephos (ISO); S-chloromethyl O,O-diethyl phosphorodithioate		246-538-1	24934-91-6	T+; R27/28 N; R50-53	T+; N R: 27/28-50/53 S: (1/2-)27-28-36/37-45-60-61	C ≥ 7 %: T+, N; R27/28-50/53 2,5 % ≤ C < 7 %: T, N; R24/25-50/53 1 % ≤ C < 2,5 %: T, N; R24/25-51/53 0,25 % ≤ C < 1 %: Xn, N; R21/22-51/53 0,1 % ≤ C < 0,25 %: Xn; R21/22-52/53 0,025 % ≤ C < 0,1 %: R52/53	

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015-115-00-1	chlorthiophos (ISO); [isomeric reaction mixture in which O-2,5-dichlorophenyl-4-methylthiophenyl O,O-diethyl phosphorothioate predominates]		244-663-6	21923-23-9	T+; R28 T; R24 N; R50-53	T+; N R: 24-28-50/53 S: (1/2-)28-36/37-45-60-61	C ≥ 25 %: T+, N; R24-28-50/53 7 % ≤ C < 25 %: T+, N; R21-28-50/53 3 % ≤ C < 7 %: T, N; R21-25-50/53 1 % ≤ C < 3 %: T, N; R25-50/53 0,1 % ≤ C < 1 %: Xn, N; R22-50/53 0,025 % ≤ C < 0,1 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
015-140-00-8	triazophos (ISO); O,O-diethyl-O-1-phenyl-1H-1,2,4-triazol-3-yl phosphorothioate		245-986-5	24017-47-8	T; R23/25 Xn; R21 N; R50-53	T; N R: 21-23/25-50/53 S: (1/2-)36/37-45-60-61	C ≥ 25 %: T, N; R21-23/25-50/53 3 % ≤ C < 25 %: Xn, N; R20/22-50/53 0,25 % ≤ C < 3 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
016-084-00-7	prosulfuron (ISO); 1-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-3-[2-(3,3,3-trifluoropropyl)phenylsulfonyl]urea		—	94125-34-5	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61	C ≥ 25 %: Xn, N; R22-50/53 0,25 % ≤ C < 25 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
017-001-00-7	chlorine		231-959-5	7782-50-5	T; R23 Xi; R36/37/38 N; R50	T; N R: 23-36/37/38-50 S: (1/2-)9-45-61	C ≥ 25 %: T, N; R23-36/37/38-50 20 % ≤ C < 25 %: Xn, N; R20-36/37/38-50 3 % ≤ C < 20 %: Xn, N; R20-50 0,25 % ≤ C < 3 %: N; R50	
017-012-00-7	calcium hypochlorite		231-908-7	7778-54-3	O; R8 C; R34 Xn; R22 R31 N; R50	O; C; N R: 8-22-31-34-50 S: (1/2-)26-36/37/39-45-61	C ≥ 25 %: C, N; R22-34-50 10 % ≤ C < 25 %: C, N; R34-50 3 % ≤ C < 10 %: Xi, N; R37/38-41-50 2,5 % ≤ C < 3 %: Xi, N; R36-50 0,5 % ≤ C < 2,5 %: Xi; R36	

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017-026-00-3	chlorine dioxide		233-162-8	10049-04-4	O; R8 R6 T+; R26 C; R34 N; R50	O; T+; N R: 6-8-26-34-50 S: (1/2-)23-26-28-36/37/ 39-38-45-61	C ≥ 5 %: T+, N; R26-34-50 2,5 % ≤ C < 5 %: T+, N; R26-36/ 37/38-50 1 % ≤ C < 2,5 %: T+; R26-36/37/38 0,5 % ≤ C < 1 %: T; R23-36/37/38 0,2 % ≤ C < 0,5 %: T; R23 0,02 % ≤ C < 0,2 %: Xn; R20	5
017-026-01-0	chlorine dioxide ... %	B	233-162-8	10049-04-4	T; R25 C; R34 N; R50	T; N R: 25-34-50 S: (1/2-)23-26-28-36/37/ 39-45-61	C ≥ 25 %: T, N; R25-34-50 10 % ≤ C < 25 %: C, N; R22-34-50 3 % ≤ C < 10 %: Xn, N; R22-36/37/ 38-50 2,5 % ≤ C < 3 %: Xi, N; R36-50 0,3 % ≤ C < 2,5 %: Xi; R36	
027-004-00-5	cobalt dichloride	E	231-589-4	7646-79-9	Carc. Cat. 2; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R60 Xn; R22 R42/43 N; R50-53	T; N R: 49-60-22-42/43-68- 50/53 S: 53-45-60-61	C ≥ 25 %: T, N; R49-60-22-42/43- 68-50/53 2,5 % ≤ C < 25 %: T, N; R49-60- 42/43-68-50/53 1 % ≤ C < 2,5 %: T, N; R49-60-42/ 43-68-51/53 0,5 % ≤ C < 1 %: T, N; R49-60-51/ 53 0,25 % ≤ C < 0,5 %: T, N; R49-51/ 53 0,025 % ≤ C < 0,25 %: T; R49-52/ 53 0,01 % ≤ C < 0,025 %: T; R49	1
027-005-00-0	cobalt sulfate	E	233-334-2	10124-43-3	Carc. Cat. 2; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R60 Xn; R22 R42/43 N; R50-53	T; N R: 49-60-22-42/43-68- 50/53 S: 53-45-60-61	C ≥ 25 %: T, N; R49-60-22-42/43- 68-50/53 2,5 % ≤ C < 25 %: T, N; R49-60-42/ 43-68-50/53 1 % ≤ C < 2,5 %: T, N; R49-60-42/ 43-68-51/53 0,5 % ≤ C < 1 %: T, N; R49-60-51/ 53 0,25 % ≤ C < 0,5 %: T, N; R49-51/ 53 0,025 % ≤ C < 0,25 %: T; R49-52/ 53 0,01 % ≤ C < 0,025 %: T; R49	1

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028-002-00-7	nickel	S	231-111-4	7440-02-0	Carc. Cat. 3; R40 T; R48/23 R43	T R: 40-43-48/23 S: (2-)36/37/39-45		7
028-009-00-5	nickel sulfate	E	232-104-9	7786-81-4	Carc. Cat. 1; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R61 T; R48/23 Xn; R20/22 Xi; R38 R42/43 N; R50-53	T; N R: 49-61-20/22-38-42/ 43-48/23-68-50/53 S: 53-45-60-61	C ≥ 25 %: T, N; R49-61-20/22-38-42/43-48/23-68-50/53 20 % ≤ C < 25 %: T, N; R49-61-38-42/43-48/23-68-51/53 2,5 % ≤ C < 20 %: T, N; R49-61-42/43-48/23-68-51/53 1 % ≤ C < 2,5 %: T; R49-61-42/43-48/23-68-52/53 0,5 % ≤ C < 1 %: T; R49-61-43-48/20-52/53 0,25 % ≤ C < 0,5 %: T; R49-43-48/20-52/53 0,1 % ≤ C < 0,25 %: T; R49-43-48/20 0,01 % ≤ C < 0,1 %: Xi; R43	
028-010-00-0	nickel carbonate; basic nickel carbonate; carbonic acid, nickel (2+) salt; [1] carbonic acid, nickel salt; [2] [μ-[carbonato(2-)-O:O']] dihydroxy trinickel; [3] [carbonato(2-)] tetrahydroxytrinickel [4]	E	222-068-2 [1] 240-408-8 [2] 265-748-4 [3] 235-715-9 [4]	3333-67-3 [1] 16337-84-1 [2] 65405-96-1 [3] 12607-70-4 [4]	Carc. Cat. 1; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R61 T; R48/23 Xn; R20/22 Xi; R38 R42/43 N; R50-53	T; N R: 49-61-20/22-38-42/ 43-48/23-68-50/53 S: 53-45-60-61		
042-001-00-9	molybdenum trioxide		215-204-7	1313-27-5	Carc. Cat. 3; R40 Xi; R36/37	Xn R: 36/37-40 S: (2-)22-36/37		
042-002-00-4	tetrakis(dimethylditetradecylammonium) hexa-μ-oxotetra-μ3-oxodi-μ5-oxotetradecaooctamolybdate(4-)		404-760-8	117342-25-3	T; R23 Xi; R41	T R: 23-41 S: (1/2-)26-36/37/39-45		
080-006-00-8	dimercury dicyanide oxide; mercuric oxycyanide		215-629-8	1335-31-5	E; R2 T; R23/24/25 R33 N; R50-53	E; T; N R: 2-23/24/25-33-50/53 S: (1/2-)28-36/37-45-60-61		

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082-004-00-2	lead chromate		231-846-0	7758-97-6	Carc. Cat. 2; R45 Repr. Cat. 1; R61 Repr. Cat. 3; R62 R33 N; R50-53	T; N R: 45-61-33-62-50/53 S: 53-45-60-61		1
082-009-00-X	lead sulphochromate yellow; C.I. Pigment Yellow 34; [This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 77603.]		215-693-7	1344-37-2	Carc. Cat. 2; R45 Repr. Cat. 1; R61 Repr. Cat. 3; R62 R33 N; R50-53	T; N R: 45-61-33-62-50/53 S: 53-45-60-61		1
082-010-00-5	lead chromate molybdate sulfate red; C.I. Pigment Red 104; [This substance is identified in the Colour Index by Colour Index Constitution Number, C.I. 77605.]		235-759-9	12656-85-8	Carc. Cat. 2; R45 Repr. Cat. 1; R61 Repr. Cat. 3; R62 R33 N; R50-53	T; N R: 45-61-33-62-50/53 S: 53-45-60-61		1
601-006-00-1	pentane; [1] isopentane; 2-methylbutane [2]	C	203-692-4 [1] 201-142-8 [2]	109-66-0 [1] 78-78-4 [2]	F+; R12 Xn; R65 R66 R67 N; R51-53	F+; Xn; N R: 12-65-66-67-51/53 S: (2-)9-16-29-33-61-62		4
601-007-00-7	hexane (containing < 5 % n-hexane (203-777-6)); 2-methylpentane; [1] 3-methylpentane; [2] 2,2-dimethylbutane; [3] 2,3-dimethylbutane [4]	C	203-523-4 [1] 202-481-4 [2] 200-906-8 [3] 201-193-6 [4]	107-83-5 [1] 96-14-0 [2] 75-83-2 [3] 79-29-8 [4]	F; R11 Xn; R65 Xi; R38 R67 N; R51-53	F; Xn; N R: 11-38-65-67-51/53 S: (2-)9-16-29-33-61-62		4

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601-008-00-2	heptane; n-heptane; [1] 2,4-dimethylpentane; [2] 2,2,3-trimethylbutane; [3] 3,3-dimethylpentane; [4] 2,3-dimethylpentane; [5] 3-methylhexane; [6] 2,2-dimethylpentane; [7] 2-methylhexane; [8] 3-ethylpentane; [9] isoheptane; [10]	C	205-563-8 [1] 203-548-0 [2] 207-346-3 [3] 209-230-8 [4] 209-280-0 [5] 209-643-3 [6] 209-680-5 [7] 209-730-6 [8] 210-529-0 [9] 250-610-8 [10]	142-82-5 [1] 108-08-7 [2] 464-06-2 [3] 562-49-2 [4] 565-59-3 [5] 589-34-4 [6] 590-35-2 [7] 591-76-4 [8] 617-78-7 [9] 31394-54-4 [10]	F; R11 Xn; R65 Xi; R38 R67 N; R50-53	F; Xn; N R: 11-38-65-67-50/53 S: (2-)9-16-29-33-60-61-62		4
601-009-00-8	octane; n-octane; [1] 2,2,4-trimethylpentane; [2] 2,3,3-trimethylpentane; [3] 3,3-dimethylhexane; [4] 2,2,3-trimethylpentane; [5] 2,3,4-trimethylpentane; [6] 3,4-dimethylhexane; [7] 2,3-dimethylhexane; [8] 2,4-dimethylhexane; [9] 4-methylheptane; [10] 3-methylheptane; [11] 2,2-dimethylhexane; [12] 2,5-dimethylhexane; [13] 2-methylheptane; [14] 2,2,3,3-tetramethylbutane; [15] 3-ethyl-2-methylpentane; [16] 3-ethylhexane; [17] 3-ethyl-3-methylpentane; [18] isooctane; [19]	C	203-892-1 [1] 208-759-1 [2] 209-207-2 [3] 209-243-9 [4] 209-266-4 [5] 209-292-6 [6] 209-504-7 [7] 209-547-1 [8] 209-649-6 [9] 209-650-1 [10] 209-660-6 [11] 209-689-4 [12] 209-745-8 [13] 209-747-9 [14] 209-855-6 [15] 210-187-2 [16] 210-621-0 [17] 213-923-0 [18] 247-861-0 [19]	111-65-9 [1] 540-84-1 [2] 560-21-4 [3] 563-16-6 [4] 564-02-3 [5] 565-75-3 [6] 583-48-2 [7] 584-94-1 [8] 589-43-5 [9] 589-53-7 [10] 589-81-1 [11] 590-73-8 [12] 592-13-2 [13] 592-27-8 [14] 594-82-1 [15] 609-26-7 [16] 619-99-8 [17] 1067-08-9 [18] 26635-64-3 [19]	F; R11 Xn; R65 Xi; R38 R67 N; R50-53	F; Xn; N R: 11-38-65-67-50/53 S: (2-)9-16-29-33-60-61-62		4
601-017-00-1	cyclohexane		203-806-2	110-82-7	F; R11 Xn; R65 Xi; R38 R67 N; R50-53	F; Xn; N R: 11-38-65-67-50/53 S: (2-)9-16-25-33-51-60-61-62		4

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601-018-00-7	methylcyclohexane		203-624-3	108-87-2	F; R11 Xn; R65 Xi; R38 R67 N; R51-53	F; Xn; N R: 11-38-65-67-51/53 S: (2-)9-16-33-61-62		4
601-019-00-2	1,4-dimethylcyclohexane		209-663-2	589-90-2	F; R11 Xn; R65 Xi; R38 R67 N; R51-53	F; Xn; N R: 11-38-65-67-51/53 S: (2-)9-16-33-61-62		4
601-021-00-3	toluene		203-625-9	108-88-3	F; R11 Repr.Cat.3; R63 Xn; R48/20-65 Xi; R38 R67	F; Xn R: 11-38-48/20-63-65-67 S: (2-)36/37-62		4
601-033-00-9	benz[a]anthracene		200-280-6	56-55-3	Carc. Cat. 2; R45 N; R50-53	T; N R: 45-50/53 S: 53-45-60-61	C ≥ 0,25 %: T, N; R45-50/53 0,1 % ≤ C < 0,25 %: T, N; R45-51/53 0,025 % ≤ C < 0,1 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
601-037-00-0	n-hexane		203-777-6	110-54-3	F; R11 Repr. Cat. 3; R62 Xn; R48/20-65 Xi; R38 R67 N; R51-53	F; Xn; N R: 11-38-48/20-62-65-67-51/53 S: (2-)9-16-29-33-36/37-61-62	C ≥ 25 %: Xn, N; R38-48/20-62-51/53 20 % ≤ C < 25 %: Xn; R38-48/20-62-52/53 5 % ≤ C < 20 %: Xn; R48/20-62-52/53 2,5 % ≤ C < 5 %: R52/53	4
601-041-00-2	dibenz[a,h]anthracene		200-181-8	53-70-3	Carc. Cat. 2; R45 N; R50-53	T; N R: 45-50/53 S: 53-45-60-61	C ≥ 0,25 %: T, N; R45-50/53 0,025 % ≤ C < 0,25 %: T, N; R45-51/53 0,01 % ≤ C < 0,025 %: T; R45-52/53 0,0025 % ≤ C < 0,01 %: R52/53	

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602-050-00-4	isodrin; (1 α ,4 α ,4 $\alpha\beta$,5 β ,8 β ,8 $\alpha\beta$)- 1,2,3,4,10,10-hexachloro- 1,4,4 α ,5,8,8 α -hexahydro-1,4:5,8- dimethanonaphthalene		207-366-2	465-73-6	T+; R26/27/28 N; R50-53	T+; N R: 26/27/28-50/53 S: (1/2-)13-28-36/37-45- 60-61	C \geq 7 %: T+, N; R26/27/28-50/53 1 % \leq C < 7 %: T, N; R23/24/25- 50/53 0,25 % \leq C < 1 %: Xn, N; R20/21/ 22-50/53 0,1 % \leq C < 0,25 %: Xn, N; R20/21/ 22-51/53 0,025 % \leq C < 0,1 %: N; R51/53 0,0025 % \leq C < 0,025 %: R52/53	
602-052-00-5	endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10- trinorborn-2-en-5,6-ylenedi- methyl sulfite; 1,4,5,6,7,7-hexachloro-8,9,10- trinorborn-5-en-2,3-ylenedi- methylene) sulfite		204-079-4	115-29-7	T+; R26/28 Xn; R21 N; R50-53	T+; N R: 21-26/28-50/53 S: (1/2-)28-36/37-45-60- 61-63		
602-076-00-6	2,3,4-trichlorobut-1-ene		219-397-9	2431-50-7	Carc. Cat. 3; R40 T; R23 Xn; R22 Xi; R36/37/38 N; R50-53	T; N R: 22-23-36/37/38-40- 50/53 S: (1/2-)36/37-45-60-61	C \geq 25 %: T, N; R22-23-36/37/38- 40-50/53 20 % \leq C < 25 %: Xn, N; R20-36/ 37/38-40-51/53 3 % \leq C < 20 %: Xn, N; R20-40-51/ 53 2,5 % \leq C < 3 %: Xn, N; R40-51/53 0,25 % \leq C < 2,5 %: Xn; R40-52/53 0,1 % \leq C < 0,25 %: Xn; R40	
602-080-00-8	alkanes, C ₁₀₋₁₃ , chloro; chlorinated paraffins, C ₁₀₋₁₃		287-476-5	85535-84-8	Carc. Cat. 3; R40 R66 N; R50-53	Xn; N R: 40-66-50/53 S: (2-)24-36/37-46-60-61		
603-003-00-0	propan-1-ol; n-propanol		200-746-9	71-23-8	F; R11 Xi; R41 R67	F; Xi R: 11-41-67 S: (2-)7-16-24-26-39		
603-004-00-6	butan-1-ol; n-butanol		200-751-6	71-36-3	R10 Xn; R22 Xi; R37/38-41 R67	Xn R: 10-22-37/38-41-67 S: (2-)7/9-13-26-37/39-46		

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603-022-00-4	diethyl ether; ether		200-467-2	60-29-7	F+; R12 R19 Xn; R22 R66 R67	F+; Xn R: 12-19-22-66-67 S: (2-)9-16-29-33		
603-032-00-9	ethylene dinitrate; ethylene glycol dinitrate		211-063-0	628-96-6	E; R3 T+; R26/27/28 R33	E; T+ R: 3-26/27/28-33 S: (1/2-)27/28-33-35-36/ 37-45		
603-037-00-6	cellulose nitrate; nitrocellulose, containing more than 12,6 % nitrogen		—	—	E; R3	E R: 3 S: (2-)35		
603-045-00-X	diisopropyl ether; [1] dipropyl ether [2]	C	203-560-6 [1] 203-869-6 [2]	108-20-3 [1] 111-43-3 [2]	F; R11 R19 R66 R67	F R: 11-19-66-67 S: (2-)9-16-29-33		
603-085-00-8	bronopol (INN); 2-bromo-2-nitropropane-1,3- diol		200-143-0	52-51-7	Xn; R21/22 Xi; R37/38-41 N; R50	Xn; N R: 21/22-37/38-41-50 S: (2-)26-36/37/39-61	C ≥ 25 %: Xn, N; R21/22-37/38- 41-50 20 % ≤ C < 25 %: Xi, N; R37/38- 41-50 10 % ≤ C < 20 %: Xi, N; R41-50 5 % ≤ C < 10 %: Xi, N; R36-50 2,5 % ≤ C < 5 %: N; R50	
603-108-00-1	2-methylpropan-1-ol; iso-butanol		201-148-0	78-83-1	R10 Xi; R37/38-41 R67	Xi R: 10-37/38-41-67 S: (2-)7/9-13-26-37/39-46		
603-117-00-0	propan-2-ol; isopropyl alcohol; isopropanol		200-661-7	67-63-0	F; R11 Xi; R36 R67	F; Xi R: 11-36-67 S: (2-)7-16-24/25-26		
603-127-00-5	butan-2-ol; [1] (S)-butan-2-ol; [2] (R)-butan-2-ol; [3] (±)-butan-2-ol [4]	C	201-158-5 [1] 224-168-1 [2] 238-967-8 [3] 240-029-8 [4]	78-92-2 [1] 4221-99-2 [2] 14898-79-4 [3] 15892-23-6 [4]	R10 Xi; R36/37 R67	Xi R: 10-36/37-67 S: (2-)7/9-13-24/25-26-46		

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604-005-00-4	1,4-dihydroxybenzene; hydroquinone; quinol		204-617-8	123-31-9	Carc. Cat. 3; R40 Muta. Cat. 3; R68 Xn; R22 Xi; R41 R43 N; R50	Xn; N R: 22-40-41-43-68-50 S: (2-)26-36/37/39-61	C ≥ 25 %: Xn, N; R22-40-41-43-68-50 10 % ≤ C < 25 %: Xn, N; R40-41-43-68-50 5 % ≤ C < 10 %: Xn, N; R36-40-43-68-50 2,5 % ≤ C < 5 %: Xn, N; R40-43-68-50 1 % ≤ C < 2,5 %: Xn; R40-43-68	
604-030-00-0	bisphenol A; 4,4'-isopropylidenediphenol		201-245-8	80-05-7	Repr. Cat. 3; R62 Xi; R37-41 R43 R52	Xn R: 37-41-43-62-52 S: (2-)26-36/37-39-46-61		
604-055-00-7	2,2'-((3,3',5,5'-tetramethyl-(1,1'-biphenyl)-4,4'-diyl)-bis(oxy-methylene))-bis-oxirane		413-900-7	85954-11-6	Carc. Cat. 3; R40 R43	Xn R: 40-43 S: (2-)22-36/37		
605-010-00-4	2-furaldehyde		202-627-7	98-01-1	Carc. Cat. 3; R40 T; R23/25 Xn; R21 Xi; R36/37/38	T R: 21-23/25-36/37/38-40 S: (1/2-)26-36/37-45		
606-001-00-8	acetone; propan-2-one; propanone		200-662-2	67-64-1	F; R11 Xi; R36 R66 R67	F; Xi R: 11-36-66-67 S: (2-)9-16-26-46		
606-002-00-3	butanone; ethyl methyl ketone		201-159-0	78-93-3	F; R11 Xi; R36 R66 R67	F; Xi R: 11-36-66-67 S: (2-)9-16		
606-006-00-5	pentan-3-one; diethyl ketone		202-490-3	96-22-0	F; R11 Xi; R37 R66 R67	F; Xi R: 11-37-66-67 S: (2-)9-16-25-33		

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606-013-00-3	p-benzoquinone; quinone		203-405-2	106-51-4	T; R23/25 Xi; R36/37/38 N; R50	T; N R: 23/25-36/37/38-50 S: (1/2-)26-28-45-61	C ≥ 25 %: T, N; R23/25-36/37/38-50 20 % ≤ C < 25 %: Xn, N; R20/22-36/37/38-50 3 % ≤ C < 20 %: Xn, N; R20/22-50 2,5 % ≤ C < 3 %: N; R50	
606-030-00-6	hexan-2-one; methyl butyl ketone; butyl methyl ketone; methyl-n-butyl ketone		209-731-1	591-78-6	R10 Repr. Cat. 3; R62 T; R48/23 R67	T R: 10-48/23-62-67 S: (1/2-)36/37-45	C ≥ 10 %: T; R48/23-62 5 % ≤ C < 10 %: Xn; R48/20-62 1 % ≤ C < 5 %: Xn; R48/20	
606-034-00-8	metribuzin (ISO); 4-amino-6-tert-butyl-3-methylthio-1,2,4-triazin-5(4H)-one; 4-amino-4,5-dihydro-6-(1,1-dimethylethyl)-3-methylthio-1,2,4-triazin-5-one		244-209-7	21087-64-9	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61	C ≥ 25 %: Xn, N; R22-50/53 2,5 % ≤ C < 25 %: N; R50/53 0,25 % ≤ C < 2,5 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53	
607-003-00-1	chloroacetic acid		201-178-4	79-11-8	T; R23/24/25 C; R34 N; R50	T; N R: 23/24/25-34-50 S: (1/2-)26-36/37/39-45-61-63	C ≥ 25 %: T, N; R23/24/25-34-50 10 % ≤ C < 25 %: C; R20/21/22-34 5 % ≤ C < 10 %: Xn; R20/21/22-36/37/38 3 % ≤ C < 5 %: Xn; R20/21/22	
607-016-00-2	propyl formate; [1] isopropyl formate [2]	C	203-798-0 [1] 210-901-2 [2]	110-74-7 [1] 625-55-8 [2]	F; R11 Xi; R36/37 R67	F; Xi R: 11-36/37-67 S: (2-)9-16-24-33		
607-021-00-X	methyl acetate		201-185-2	79-20-9	F; R11 Xi; R36 R66 R67	F; Xi R: 11-36-66-67 S: (2-)16-26-29-33		
607-022-00-5	ethyl acetate		205-500-4	141-78-6	F; R11 Xi; R36 R66 R67	F; Xi R: 11-36-66-67 S: (2-)16-26-33		

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607-024-00-6	propyl acetate; [1] isopropyl acetate [2]	C	203-686-1 [1] 203-561-1 [2]	109-60-4 [1] 108-21-4 [2]	F; R11 Xi; R36 R66 R67	F; Xi R: 11-36-66-67 S: (2-)16-26-29-33		
607-025-00-1	n-butyl acetate		204-658-1	123-86-4	R10 R66 R67	R: 10-66-67 S: (2-)25		
607-065-00-X	bromoacetic acid		201-175-8	79-08-3	T; R23/24/25 C; R35 R43 N; R50	T; C; N R: 23/24/25-35-43-50 S: (1/2-)26-36/37/39-45-61		
607-162-00-7	dalapon; 2,2-dichloropropionic acid; [1] dalapon-sodium; sodium 2,2-dichloropropionate [2]		200-923-0 [1] 204-828-5 [2]	75-99-0 [1] 127-20-8 [2]	Xi; R38-41 R52-53	Xi R: 38-41-52/53 S: (2-)26-39-61		
607-189-00-4	trimethylenediaminetetraacetic acid		400-400-9	1939-36-2	Xn; R22 Xi; R41	Xn R: 22-41 S: (2-)22-26-39		
607-213-00-3	ethyl 3,3-bis(<i>tert</i> -pentylperoxy) butyrate		403-320-2	67567-23-1	E; R3 O; R7 R10 N; R51-53	E; N R: 3-7-10-51/53 S: (2-)3/7-14-33-36/37/39-61		
607-252-00-6	lambda-cyhalothrin (ISO); A 1:1 mixture of: (S)- α -cyano-3-phenoxybenzyl(Z)-(1R)- <i>cis</i> -3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate; (R)- α -cyano-3-phenoxybenzyl(Z)-(1S)- <i>cis</i> -3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate		415-130-7	91465-08-6	T+; R26 T; R25 Xn; R21 N; R50-53	T+; N R: 21-25-26-50/53 S: (1/2-)28-36/37/39-38-45-60-61	C \geq 25 %: T+; N; R21-25-26-50/53 7 % \leq C < 25 %: T+; N; R22-26-50/53 3 % \leq C < 7 %: T; N; R22-23-50/53 1 % \leq C < 3 %: T; N; R23-50/53 0,1 % \leq C < 1 %: Xn; N; R20-50/53 0,0025 % \leq C < 0,1 %: N; R50/53 0,00025 % \leq C < 0,0025 %: N; R51/53 0,000025 % \leq C < 0,00025 %: R52/53	

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607-253-00-1	cyfluthrin (ISO); α -cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate		269-855-7	68359-37-5	T+; R28 T; R23 N; R50-53	T+; N R: 23-28-50/53 S: (1/2-)28-36/37/39-45-60-61	$C \geq 25\%$: T+, N; R23-28-50/53 $7\% \leq C < 25\%$: T+, N; R20-28-50/53 $3\% \leq C < 7\%$: T, N; R20-25-50/53 $1\% \leq C < 3\%$: T, N; R25-50/53 $0,1\% \leq C < 1\%$: Xn, N; R22-50/53 $0,025\% \leq C < 0,1\%$: N; R50/53 $0,0025\% \leq C < 0,025\%$: N; R51/53 $0,00025\% \leq C < 0,0025\%$: R52/53	
607-319-00-X	deltamethrin (ISO); (S)- α -cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate		258-256-6	52918-63-5	T; R23/25 N; R50-53	T; N R: 23/25-50/53 S: (1/2-)24-28-36/37/39-38-45-60-61	$C \geq 25\%$: T, N; R23/25-50/53 $3\% \leq C < 25\%$: Xn, N; R20/22-50/53 $0,000025\% \leq C < 3\%$: N; R50/53 $0,0000025\% \leq C < 0,000025\%$: N; R51/53 $0,00000025\% \leq C < 0,0000025\%$: R52/53	
607-422-00-X	α -cypermethrin (ISO); racemate comprising (R)- α -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (S)- α -cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate		257-842-9	67375-30-8	T; R25 Xn; R48/22 Xi; R37 N; R50-53	T; N R: 25-37-48/22-50/53 S: (1/2-)36/37/39-45-60-61	$C \geq 25\%$: T, N; R25-37-48/22-50/53 $20\% \leq C < 25\%$: Xn, N; R22-37-48/22-50/53 $10\% \leq C < 20\%$: Xn, N; R22-48/22-50/53 $3\% \leq C < 10\%$: Xn, N; R22-50/53 $0,025\% \leq C < 3\%$: N; R50/53 $0,0025\% \leq C < 0,025\%$: N; R51/53 $0,00025\% \leq C < 0,0025\%$: R52/53	

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608-014-00-4	chlorothalonil (ISO); tetrachloroisophthalonitrile		217-588-1	1897-45-6	Carc. Cat. 3; R40 T+; R26 Xi; R37-41 R43 N; R50-53	T+; N R: 26-37-40-41-43-50/53 S: (1/2-)28-36/37/39-45-60-61	C ≥ 20 %: T+, N; R26-37-40-41-43-50/53 10 % ≤ C < 20 %: T+, N; R26-40-41-43-50/53 7 % ≤ C < 10 %: T+, N; R26-40-36-43-50/53 5 % ≤ C < 7 %: T, N; R23-40-36-43-50/53 2,5 % ≤ C < 5 %: T, N; R23-40-43-50/53 1 % ≤ C < 2,5 %: T, N; R23-40-43-51/53 0,25 % ≤ C < 1 %: Xn, N; R20-51/53 0,1 % ≤ C < 0,25 %: Xn; R20-52/53 0,025 % ≤ C < 0,1 %: R52/53	
608-034-00-3	chlorfenapyr (ISO); 4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile		—	122453-73-0	T; R23 Xn; R22 N; R50-53	T; N R: 22-23-50/53 S: (1/2-)13-36/37-45-60-61	C ≥ 25 %: T, N; R23-22-50/53 3 % ≤ C < 25 %: Xn, N; R20-50/53 0,25 % ≤ C < 3 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
608-058-00-4	esfenvalerate (ISO); (S)-α-cyano-3-phenoxybenzyl-(S)-2-(4-chlorophenyl)-3-methylbutyrate		—	66230-04-4	T; R23/25 R43 N; R50-53	T; N R: 23/25-43-50/53 S: (1/2-)24-36/37/39-45-60-61	C ≥ 25 %: T, N; R23/25-43-50/53 3 % ≤ C < 25 %: Xn, N; R20/22-43-50/53 1 % ≤ C < 3 %: Xi, N; R43-50/53 0,0025 % ≤ C < 1 %: N; R50/53 0,00025 % ≤ C < 0,0025 %: N; R51/53 0,000025 % ≤ C < 0,00025 %: R52/53	
609-005-00-8	1,3,5-trinitrobenzene		202-752-7	99-35-4	E; R3 T+; R26/27/28 R33 N; R50-53	E; T+; N R: 3-26/27/28-33-50/53 S: (1/2-)28-36/37-45-60-61		
609-009-00-X	2,4,6-trinitrophenol; picric acid		201-865-9	88-89-1	E; R3 R4 T; R23/24/25	E; T R: 3-4-23/24/25 S: (1/2-)28-35-36/37-45		

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609-018-00-9	2,4,6-trinitroresorcinol; stypnic acid		201-436-6	82-71-3	E; R3 R4 Xn; R20/21/22	E; Xn R: 3-4-20/21/22 S: (2-)35-36/37		
609-023-00-6	dinocap (ISO); (RS)-2,6-dinitro-4-octylphenyl crotonates and (RS)-2,4-dinitro-6-octylphenyl crotonates in which "octyl" is a mixture of 1-methylheptyl, 1-ethylhexyl and 1-propylpentyl groups	E	254-408-0	39300-45-3	Repr. Cat. 2; R61 Xn; R20/22-48/22 Xi; R38 R43 N; R50-53	T; N R: 61-20/22-38-43-48/ 22-50/53 S: 53-45-60-61	C ≥ 25 %: T, N; R61-20/22-38-43-48/22-50/53 20 % ≤ C < 25 %: T, N; R61-38-43-48/22-50/53 10 % ≤ C < 20 %: T, N; R61-43-48/22-50/53 1 % ≤ C < 10 %: T, N; R61-43-50/53 0,5 % ≤ C < 1 %: T, N; R61-50/53 0,25 % ≤ C < 0,5 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
609-046-00-1	trifluralin (ISO) (containing < 0.5 ppm NPDA); α,α,α-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine (containing < 0.5 ppm NPDA); 2,6-dinitro-N,N-dipropyl-4-trifluoromethylaniline (containing < 0.5 ppm NPDA); N,N-dipropyl-2,6-dinitro-4-trifluoromethylaniline (containing < 0.5 ppm NPDA)		216-428-8	1582-09-8	Carc. Cat. 3; R40 R43 N; R50-53	Xn; N R: 40-43-50/53 S: (2-)36/37-46-60-61	C ≥ 2,5 %: Xn, N; R40-43-50/53 1 % ≤ C < 2,5 %: Xn, N; R40-43-51/53 0,25 % ≤ C < 1 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53	
611-067-00-6	A mixture of: bis(tris(2-(2-hydroxy(1-methyl)ethoxy)ethyl) ammonium) 7-anilino-4-hydroxy-3-(2-methoxy-5-methyl-4-(4-sulfonatophenylazo)phenylazo)naphthalene-2-sulfonate; bis(tris(2-(2-hydroxy(2-methyl)ethoxy)ethyl) ammonium) 7-anilino-4-hydroxy-3-(2-methoxy-5-methyl-4-(4-sulfonatophenylazo)phenylazo)naphthalene-2-sulfonate		406-910-8	—	Xn; R22 R52-53	Xn R: 22-52/53 S: (2-)22-61		

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611-130-00-8	tetra-ammonium 2-[6-[7-(2-carboxylato-phenylazo)-8-hydroxy-3,6-disulfonato-1-naphthylamino]-4-hydroxy-1,3,5-triazin-2-ylamino]benzoate		418-520-5	183130-96-3	Xi; R36 R52-53	Xi R: 36-52/53 S: (2-)26-39-61		
612-017-00-6	N-methyl-N-2,4,6-tetranitroaniline; tetryl		207-531-9	479-45-8	E; R3 T; R23/24/25 R33	E; T R: 3-23/24/25-33 S: (1/2-)35-36/37-45-63		
612-018-00-1	bis(2,4,6-trinitrophenyl)amine; hexyl		205-037-8	131-73-7	E; R3 T+; R26/27/28 R33 N; R51-53	E; T+; N R: 3-26/27/28-33-51/53 S: (1/2-)27/28-35-36/37-45-61-63		
612-019-00-7	dipicrylamine, ammonium salt		220-639-0	2844-92-0	E; R3 T+; R26/27/28 R33 N; R51-53	E; T+; N R: 3-26/27/28-33-51/53 S: (1/2-)27/28-36/37-45-61-63		
612-034-00-9	2-amino-4,6-dinitrophenol; picramic acid		202-544-6	96-91-3	E; R2 Xn; R20/21/22 R52-53	E; Xn R: 2-20/21/22-52/53 S: (2-)35-36/37-46-61		
612-057-00-4	piperazine; [solid]		203-808-3	110-85-0	Repr. Cat. 3; R62-63 C; R34 R42/43	Xn; C R: 34-42/43-62-63 S: (1/2-)22-26-36/37/39-45		
612-083-00-6	1-methyl-3-nitro-1-nitrosoguanidine	E	200-730-1	70-25-7	Carc. Cat. 2; R45 Xn; R20 Xi; R36/38 N; R51-53	T; N R: 45-20-36/38-51/53 S: 53-45-61	C ≥ 25 %: T; N; R45-20-36/38-51/53 20 % ≤ C < 25 %: T; R45-36/38-52/53 2,5 % ≤ C < 20 %: T; R45-52/53 0,01 % ≤ C < 2,5 %: T; R45	
612-094-00-6	4-(2-chloro-4-trifluoromethyl)phenoxy-2-fluoroaniline hydrochloride		402-190-4	113674-95-6	T; R48/25 Xn; R22-48/20 Xi; R41 R43 N; R50-53	T; N R: 22-41-43-48/20-48/25-50/53 S: (1/2-)26-36/37/39-45-60-61		

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612-098-00-8	nitrosodipropylamine	E	210-698-0	621-64-7	Carc. Cat. 2; R45 Xn; R22 N; R51-53	T; N R: 45-22-51/53 S: 53-45-61	C ≥ 25 %: T, N; R45-22-51/53 2,5 % ≤ C < 25 %: T; R45-52/53 0,001 % ≤ C < 2,5 %: T; R45	
612-122-00-7	hydroxylamine % [> 55 % in aqueous solution]	B	232-259-2	7803-49-8	E; R2 Carc. Cat. 3; R40 Xn; R21/22-48/22 Xi; R37/38-41 R43 N; R50	E; Xn; N R: 2-21/22-37/38-40-41-43-48/22-50 S: (2-)26-36/37/39-61		
612-123-00-2	hydroxylammonium chloride; hydroxylamine hydrochloride; [1] bis(hydroxylammonium) sulfate; hydroxylamine sulfate (2:1) [2]		226-798-2 [1] 233-118-8 [2]	5470-11-1 [1] 10039-54-0 [2]	E; R2 Carc. Cat. 3; R40 Xn; R21/22-48/22 Xi; R36/38 R43 N; R50	E; Xn; N R: 2-21/22-36/38-40-43-48/22-50 S: (2-)36/37-61		
613-003-00-2	1,2,3,4-tetranitrocarbazole		—	6202-15-9	E; R2 Xn; R20/21/22	E; Xn R: 2-20/21/22 S: (2-)35-36/37		
613-010-00-0	ametryn (ISO); 2-ethylamino-4-isopropylamino- 6-methylthio-1,3,5-triazine		212-634-7	834-12-8	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)36-60-61	C ≥ 25 %: Xn, N; R22-50/53 0,25 % ≤ C < 25 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
613-030-00-X	troclosene potassium; [1] troclosene sodium [2]	T	218-828-8 [1] 220-767-7 [2]	2244-21-5 [1] 2893-78-9 [2]	E; R2 O; R8 Xn; R22 Xi; R36/37 R31 N; R50-53	E; Xn; N R: 2-8-22-31-36/37-50/53 S: (2-)8-26-41-45-60-61	C ≥ 25 %: Xn, N; R22-36/37-50/53 10 % ≤ C < 25 %: Xn, N; R22-31-36/37-51/53 2,5 % ≤ C < 10 %: N; R51/53 0,25 % ≤ C < 2,5 %: R52/53	

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613-044-00-6	captan (ISO); 1,2,3,6-tetrahydro-N-(trichloromethylthio)phthalimide		205-087-0	133-06-2	Carc. Cat. 3; R40 T; R23 Xi; R41 R43 N; R50	T; N R: 23-40-41-43-50 S: (1/2-)26-29-36/37/39-45-61	C ≥ 25 %: T, N; R23-40-41-43-50 10 % ≤ C < 25 %: Xn, N; R20-40-41-43-50 5 % ≤ C < 10 %: Xn, N; R20-36-40-43-50 3 % ≤ C < 5 %: Xn, N; R20-40-43-50 2,5 % ≤ C < 3 %: Xn, N; R40-43-50 1 % ≤ C < 2,5 %: Xn; R40-43	
613-045-00-1	folpet (ISO); N-(trichloromethylthio)phthalimide		205-088-6	133-07-3	Carc. Cat. 3; R40 Xn; R20 Xi; R36 R43 N; R50	Xn; N R: 20-36-40-43-50 S: (2-)36/37-46-61	C ≥ 25 %: Xn, N; R20-36-40-43-50 20 % ≤ C < 25 %: Xn, N; R36-40-43-50 2,5 % ≤ C < 20 %: Xn, N; R40-43-50 1 % ≤ C < 2,5 %: Xn; R40-43	
613-060-00-3	resmethrin (ISO); 5-benzyl-3-furylmethyl (±)-cis-trans-chrysanthemate		233-940-7	10453-86-8	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61	C ≥ 25 %: Xn, N; R22-50/53 0,025 % ≤ C < 25 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
613-120-00-9	bioresmethrin (ISO); (5-benzylfur-3-yl)methyl(1R)-trans-2,2-dimethyl-3-(2-methylpropenyl)cyclopropanecarboxylate		249-014-0	28434-01-7	N; R50-53	N R: 50/53 S: 60-61	C ≥ 0,025 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
613-139-00-2	metsulfuron-methyl (ISO); 2-(4-methoxy-6-methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl)benzoic acid		—	74223-64-6	N; R50-53	N R: 50/53 S: 60-61	C ≥ 0,025 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
613-163-00-3	azimsulfuron (ISO); 1-(4,6-dimethoxyimidin-2-yl)-3-[1-methyl-4-(2-methyl-2H-tetrazol-5-yl)pyrazol-5-ylsulfonyl]urea		—	120162-55-2	N; R50-53	N R: 50/53 S: 60-61	C ≥ 0,025 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	

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613-164-00-9	flufenacet (ISO); N-(4-fluorophenyl)-N-isopropyl-2-(5-trifluoromethyl-[1,3,4]thiazol-2-yl)oxyacetamide		—	142459-58-3	Xn; R22-48/22 R43 N; R50-53	Xn; N R: 22-43-48/22-50/53 S: (2-)13-24-37-60-61	C ≥ 25 %: Xn, N; R22-43-48/22-50/53 10 % ≤ C < 25 %: Xn, N; R43-48/22-50/53 1 % ≤ C < 10 %: Xi, N; R43-50/53 0,25 % ≤ C < 1 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
613-165-00-4	flupyr-sulfuron-methyl-sodium (ISO); methyl 2-[[[(4,6-dimethoxypyrimidin-2-ylcarbamoyl)sulfamoyl]-6-trifluoromethyl]nicotinate, monosodium salt		—	144740-54-5	N; R50-53	N R: 50/53 S: 60-61	C ≥ 0,25 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
613-166-00-X	flumioxazin (ISO); N-(7-fluoro-3,4-dihydro-3-oxo-4-prop-2-ynyl-2H-1,4-benzoxazin-6-yl)cyclohex-1-ene-1,2-dicarboxamide		—	103361-09-7	Repr. Cat. 2; R61 N; R50-53	T; N R: 61-50/53 S: 53-45-60-61	C ≥ 0,5 %: T, N; R61-50/53 0,025 % ≤ C < 0,5 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
613-169-00-6	9-vinylcarbazole		216-055-0	1484-13-5	Muta. Cat. 3; R68 Xn; R21/22 Xi; R38 R43 N; R50-53	Xn; N R: 21/22-38-43-68-50/53 S: (2-)22-23-36/37-60-61	C ≥ 25 %: Xn, N; R21/22-38-43-68-50/53 20 % ≤ C < 25 %: Xn, N; R38-43-68-50/53 1 % ≤ C < 20 %: Xn, N; R43-68-50/53 0,25 % ≤ C < 1 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
613-174-00-3	tetraconazole (ISO); (+/-) 2-(2,4-dichlorophenyl)-3-(1H-1,2,4-triazol-1-yl)propyl-1,1,2,2-tetrafluoroethyl ether		407-760-6	112281-77-3	Xn; R20/22 N; R51-53	Xn; N R: 20/22-51/53 S: (2-)36-61		

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613-203-00-X	pyraflufen-ethyl (ISO); 2-chloro-5-(4-chloro-5-difluoromethoxy-1-methylpyrazol-3-yl)-4-fluorophenoxyacetic acid ethyl ester; [1] pyraflufen (ISO); 2-chloro-5-(4-chloro-5-difluoromethoxy-1-methylpyrazol-3-yl)-4-fluorophenoxyacetic acid [2]		— [1] — [2]	129630-19-9 [1] 129630-17-7 [2]	N; R50-53	N R: 50/53 S: 60-61	C ≥ 0,025 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
613-204-00-5	oxadiargyl (ISO); 3-[2,4-dichloro-5-(2-propynyloxy)phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one; 5-tert-butyl-3-[2,4-dichloro-5-(prop-2-ynyloxy)phenyl]-1,3,4-oxadiazol-2(3H)-one		254-637-6	39807-15-3	Repr. Cat. 3; R63 Xn; R48/22 N; R50-53	Xn; N R: 48/22-63-50/53 S: (2-)36/37-46-60-61	C ≥ 10 %: Xn, N; R48/22-63-50/53 5 % ≤ C < 10 %: Xn, N; R63-50/53 0,025 % ≤ C < 5 %: N; R50/53 0,0025 % ≤ C < 0,025 %: N; R51/53 0,00025 % ≤ C < 0,0025 %: R52/53	
614-005-00-6	colchicine	E	200-598-5	64-86-8	Muta. Cat. 2; R46 T+; R28	T+ R: 46-28 S: 53-45		
615-005-00-9	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate; [1] 2,2'-methylenediphenyl diisocyanate; diphenylmethane-2,2'-diisocyanate; [2] o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; [3] methylenediphenyl diisocyanate [4]	C	202-966-0 [1] 219-799-4 [2] 227-534-9 [3] 247-714-0 [4]	101-68-8 [1] 2536-05-2 [2] 5873-54-1 [3] 26447-40-5 [4]	Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43	Xn R: 20-36/37/38-40-42/43-48/20 S: (1/2-)23-36/37-45	C ≥ 25 %: Xn; R20-36/37/38-40-42/43-48/20 10 % ≤ C < 25 %: Xn; R36/37/38-40-42/43-48/20 5 % ≤ C < 10 %: Xn; R36/37/38-40-42/43 1 % ≤ C < 5 %: Xn; R40-42/43 0,1 % ≤ C < 1 %: Xn; R42	2
615-022-00-1	methyl 3-isocyanatosulfonyl-2-thiophene-carboxylate		410-550-7	79277-18-2	R14 Xn; R48/22 R42/43	Xn R: 42/43-48/22 S: (2-)22-30-35-36/37-45		

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616-006-00-7	dichlofluanid (ISO); N-dichlorofluoromethylthio-N', N'-dimethyl-N-phenylsulfamide		214-118-7	1085-98-9	Xn; R20 Xi; R36 R43 N; R50	Xn; N R: 20-36-43-50 S: (2-)24-37-61	C ≥ 25 %: Xn, N; R20-36-43-50 20 % ≤ C < 25 %: Xi, N; R36-43-50 2,5 % ≤ C < 20 %: Xi, N; R43-50 1 % ≤ C < 2,5 %: Xi; R43	
616-009-00-3	propanil (ISO); 3',4'-dichloropropionanilide		211-914-6	709-98-8	Xn; R22 N; R50	Xn; N R: 22-50 S: (2-)22-61	C ≥ 25 %: Xn, N; R22-50 2,5 % ≤ C < 25 %: N; R50	
617-008-00-0	dibenzoyl peroxide; benzoyl peroxide		202-327-6	94-36-0	E; R3 O; R7 Xi; R36 R43	E; Xi R: 3-7-36-43 S: (2-)3/7-14-36/37/39		
617-010-00-1	1-hydroperoxycyclohexyl 1- hydroxycyclohexyl peroxide; [1] 1,1'-dioxybiscyclohexan-1-ol; [2] cyclohexylidene hydroperoxide; [3] cyclohexanone, peroxide [4]	C	201-091-1 [1] 219-306-2 [2] 220-279-4 [3] 235-527-7 [4]	78-18-2 [1] 2407-94-5 [2] 2699-11-8 [3] 12262-58-7 [4]	E; R3 O; R7 C; R34 Xn; R22	E; C R: 3-7-22-34 S: (1/2-)3/7-14-36/37/39-45	C ≥ 25 %: C; R22-34 10 % ≤ C < 25 %: C; R34 5 % ≤ C < 10 %: Xi; R36/37/38	
648-002-00-6	Tar oils, brown-coal; Light Oil; [The distillate from lignite tar boiling in the range of approxi- mately 80 °C to 250 °C (176 °F to 482 °F). Composed primarily of aliphatic and aromatic hydrocar- bons and monobasic phenols.]	H J	302-674-4	94114-40-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-003-00-1	Benzol forerunnings (coal); Light Oil Redistillate, low boiling; [The distillate from coke oven light oil having an approximate distillation range below 100 °C (212 °F). Composed primarily of C ₄ to C ₆ aliphatic hydrocarbons.]	H J	266-023-5	65996-88-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-004-00-7	Distillates (coal tar), benzole fraction, BTX-rich; Light Oil Redistillate, low boiling; [A residue from the distillation of crude benzole to remove benzole fronts. Composed primarily of benzene, toluene and xylenes boiling in the range of approximately 75 °C to 200 °C (167 °F to 392 °F).]	H J	309-984-9	101896-26-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-005-00-2	Aromatic hydrocarbons, C ₆₋₁₀ , C ₈ -rich; Light Oil Redistillate, low boiling	H J	292-697-5	90989-41-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-006-00-8	Solvent naphtha (coal), light; Light Oil Redistillate, low boiling	H J	287-498-5	85536-17-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-007-00-3	Solvent naphtha (coal), xylene-styrene cut; Light Oil Redistillate, intermediate boiling	H J	287-502-5	85536-20-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-008-00-9	Solvent naphtha (coal), coumarone-styrene contg.; Light Oil Redistillate, intermediate boiling	H J	287-500-4	85536-19-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-009-00-4	Naphtha (coal), distn. residues; Light Oil Redistillate, high boiling; [The residue remaining from the distillation of recovered naphtha. Composed primarily of naphthalene and condensation products of indene and styrene.]	H J	292-636-2	90641-12-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-010-00-X	Aromatic hydrocarbons, C ₈ ; Light Oil Redistillate, high boiling	H J	292-694-9	90989-38-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-012-00-0	Aromatic hydrocarbons, C ₈₋₉ , hydrocarbon resin polymn. by-product; Light Oil Redistillate, high boiling; [A complex combination of hydrocarbons obtained from the evaporation of solvent under vacuum from polymerized hydrocarbon resin. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₈ through C ₉ and boiling in the range of approximately 120 °C to 215 °C (248 °F to 419 °F).]	H J	295-281-1	91995-20-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-013-00-6	Aromatic hydrocarbons, C ₉₋₁₂ , benzene distn.; Light Oil Redistillate, high boiling	H J	295-551-9	92062-36-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-014-00-1	Extract residues (coal), benzole fraction alk., acid ext.; Light Oil Extract Residues, low boiling; [The redistillate from the distillate, freed of tar acids and tar bases, from bituminous coal high temperature tar boiling in the approximate range of 90 °C to 160 °C (194 °F to 320 °F). It consists predominantly of benzene, toluene and xylenes.]	H J	295-323-9	91995-61-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-015-00-7	Extract residues (coal tar), benzole fraction alk., acid ext.; Light Oil Extract Residues, low boiling; [A complex combination of hydrocarbons obtained by the redistillation of the distillate of high temperature coal tar (tar acid and tar base free). It consists predominantly of unsubstituted and substituted mononuclear aromatic hydrocarbons boiling in the range of 85 °C to 195 °C (185 °F to 383 °F).]	H J	309-868-8	101316-63-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-016-00-2	Extract residues (coal), benzole fraction acid; Light Oil Extract Residues, low boiling; [An acid sludge by-product of the sulfuric acid refining of crude high temperature coal. Composed primarily of sulfuric acid and organic compounds.]	H J	298-725-2	93821-38-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-017-00-8	Extract residues (coal), light oil alk., distn. overheads; Light Oil Extract Residues, low boiling; [The first fraction from the distillation of aromatic hydrocarbons, coumarone, naphthalene and indene rich prefractionator bottoms or washed carbolic oil boiling substantially below 145 °C (293 °F). Composed primarily of C ₇ and C ₈ aliphatic and aromatic hydrocarbons.]	H J	292-625-2	90641-02-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-018-00-3	Extract residues (coal), light oil alk., acid ext., indene fraction; Light Oil Extract Residues, intermediate boiling	H J	309-867-2	101316-62-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-019-00-9	Extract residues (coal), light oil alk., indene naphtha fraction; Light Oil Extract Residues, high boiling; [The distillate from aromatic hydrocarbons, coumarone, naphthalene and indene rich prefractionator bottoms or washed carbolic oils, having an approximate boiling range of 155 °C to 180 °C (311 °F to 356 °F). Composed primarily of indene, indan and trimethylbenzenes.]	H J	292-626-8	90641-03-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-020-00-4	Solvent naphtha (coal); [The distillate from either high temperature coal tar, coke oven light oil, or coal tar oil alkaline extract residue having an approximate distillation range of 130 °C to 210 °C (266 °F to 410 °F). Composed primarily of indene and other polycyclic ring systems containing a single aromatic ring. May contain phenolic compounds and aromatic nitrogen bases.]; Light Oil Extract Residues, high boiling	H J	266-013-0	65996-79-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-021-00-X	Distillates (coal tar), light oils, neutral fraction; Light Oil Extract Residues, high boiling; [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of alkyl-substituted one ring aromatic hydrocarbons boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F). May also include unsaturated hydrocarbons such as indene and coumarone.]	H J	309-971-8	101794-90-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-022-00-5	Distillates (coal tar), light oils, acid exts.; Light Oil Extract Residues, high boiling; [This oil is a complex mixture of aromatic hydrocarbons, primarily indene, naphthalene, coumarone, phenol, and <i>o</i> -, <i>m</i> - and <i>p</i> -cresol and boiling in the range of 140 °C to 215 °C (284 °F to 419 °F).]	H J	292-609-5	90640-87-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-023-00-0	Distillates (coal tar), light oils; Carbolic Oil; [A complex combination of hydrocarbons obtained by distillation of coal tar. It consists of aromatic and other hydrocarbons, phenolic compounds and aromatic nitrogen compounds and distills at the approximate range of 150 °C to 210 °C (302 °F to 410 °F).]	H J	283-483-2	84650-03-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-024-00-6	Tar oils, coal; Carbolic Oil; [The distillate from high temperature coal tar having an approximate distillation range of 130 °C to 250 °C (266 °F to 410 °F). Composed primarily of naphthalene, alkylnaphthalenes, phenolic compounds, and aromatic nitrogen bases.]	H J	266-016-7	65996-82-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-026-00-7	Extract residues (coal), light oil alk., acid ext.; Carbolic Oil Extract Residue; [The oil resulting from the acid washing of alkali-washed carbolic oil to remove the minor amounts of basic compounds (tar bases). Composed primarily of indene, indan and alkylbenzenes.]	H J	292-624-7	90641-01-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-027-00-2	Extract residues (coal), tar oil alk.; Carbolic Oil Extract Residue; [The residue obtained from coal tar oil by an alkaline wash such as aqueous sodium hydroxide after the removal of crude coal tar acids. Composed primarily of naphthalenes and aromatic nitrogen bases.]	H J	266-021-4	65996-87-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-028-00-8	Extract oils (coal), light oil; Acid Extract; [The aqueous extract produced by an acidic wash of alkali-washed carbolic oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.]	H J	292-622-6	90640-99-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-029-00-3	Pyridine, alkyl derivs.; Crude Tar Bases; [The complex combination of polyalkylated pyridines derived from coal tar distillation or as high-boiling distillates approximately above 150 °C (302 °F) from the reaction of ammonia with acetaldehyde, formaldehyde or paraformaldehyde.]	H J	269-929-9	68391-11-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-030-00-9	Tar bases, coal, picoline fraction; Distillate Bases; [Pyridine bases boiling in the range of approximately 125 °C to 160 °C (257 °F 320 °F) obtained by distillation of neutralized acid extract of the base-containing tar fraction obtained by the distillation of bituminous coal tars. Composed chiefly of lutidines and picolines.]	H J	295-548-2	92062-33-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-031-00-4	Tar bases, coal, lutidine fraction; Distillate Bases	H J	293-766-2	91082-52-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-032-00-X	Extract oils (coal), tar base, collidine fraction; Distillate Bases; [The extract produced by the acidic extraction of bases from crude coal tar aromatic oils, neutralization, and distillation of the bases. Composed primarily of collidines, aniline, toluidines, lutidines, xyloidines.]	H J	273-077-3	68937-63-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-033-00-5	Tar bases, coal, collidine fraction; Distillate Bases; [The distillation fraction boiling in the range of approximately 181 °C to 186 °C (356 °F to 367 °F) from the crude bases obtained from the neutralized, acid-extracted base-containing tar fractions obtained by the distillation of bituminous coal tar. It contains chiefly aniline and collidines.]	H J	295-543-5	92062-28-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-034-00-0	Tar bases, coal, aniline fraction; Distillate Bases; [The distillation fraction boiling in the range of approximately 180 °C to 200 °C (356 °F to 392 °F) from the crude bases obtained by dephenolating and debasing the carbolated oil from the distillation of coal tar. It contains chiefly aniline, collidines, lutidines and toluidines.]	H J	295-541-4	92062-27-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-035-00-6	Tar bases, coal, toluidine fraction; Distillate Bases	H J	293-767-8	91082-53-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-036-00-1	Distillates (petroleum), alkene-alkyne manuf. pyrolysis oil, mixed with high-temp. coal tar, indene fraction; Redistillates; [A complex combination of hydrocarbons obtained as a redistillate from the fractional distillation of bituminous coal high temperature tar and residual oils that are obtained by the pyrolytic production of alkenes and alkynes from petroleum products or natural gas. It consists predominantly of indene and boils in a range of approximately 160 °C to 190 °C (320 °F to 374 °F).]	H J	295-292-1	91995-31-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-037-00-7	Distillates (coal), coal tar-residual pyrolysis oils, naphthalene oils; Redistillates; [The redistillate obtained from the fractional distillation of bituminous coal high temperature tar and pyrolysis residual oils and boiling in the range of approximately 190 °C to 270 °C (374 °F to 518 °F). Composed primarily of substituted dinuclear aromatics.]	H J	295-295-8	91995-35-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-038-00-2	Extract oils (coal), coal tar-residual pyrolysis oils, naphthalene oil, redistillate; Redistillates; [The redistillate from the fractional distillation of dephenolated and debased methylnaphthalene oil obtained from bituminous coal high temperature tar and pyrolysis residual oils boiling in the approximate range of 220 °C to 230 °C (428 °F to 446 °F). It consists predominantly of unsubstituted and substituted dinuclear aromatic hydrocarbons.]	H J	295-329-1	91995-66-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-039-00-8	Extract oils (coal), coal tar-residual pyrolysis oils, naphthalene oils; Redistillates; [A neutral oil obtained by debasing and dephenolating the oil obtained from the distillation of high temperature tar and pyrolysis residual oils which has a boiling range of 225 °C to 255 °C (437 °F to 491 °F). Composed primarily of substituted dinuclear aromatic hydrocarbons.]	H J	310-170-0	122070-79-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-040-00-3	Extract oils (coal), coal tar residual pyrolysis oils, naphthalene oil, distn. residues; Redistillates; [Residue from the distillation of dephenolated and debased methylnaphthalene oil (from bituminous coal tar and pyrolysis residual oils) with a boiling range of 240 °C to 260 °C (464 °F to 500 °F). Composed primarily of substituted dinuclear aromatic and heterocyclic hydrocarbons.]	H J	310-171-6	122070-80-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-043-00-X	Creosote oil, acenaphthene fraction, acenaphthene-free; Wash Oil Redistillate; [The oil remaining after removal by a crystallization process of acenaphthene from acenaphthene oil from coal tar. Composed primarily of naphthalene and alkyl naphthalenes.]	H M	292-606-9	90640-85-0	Carc. Cat. 2; R45	T R: 45 S: 53-45		
648-080-00-1	Residues (coal tar), creosote oil distn.; Wash Oil Redistillate; [The residue from the fractional distillation of wash oil boiling in the approximate range of 270 °C to 330 °C (518 °F to 626 °F). It consists predominantly of dinuclear aromatic and heterocyclic hydrocarbons.]	H M	295-506-3	92061-93-3	Carc. Cat. 2; R45	T R: 45 S: 53-45		
648-084-00-3	Distillates (coal), coke-oven light oil, naphthalene cut; Naphthalene Oil; [The complex combination of hydrocarbons obtained from prefractionation (continuous distillation) of coke oven light oil. It consists predominantly of naphthalene, coumarone and indene and boils above 148 °C (298 °F).]	HJM	285-076-5	85029-51-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-085-00-9	Distillates (coal tar), naphthalene oils; Naphthalene Oil; [A complex combination of hydrocarbons obtained by the distillation of coal tar. It consists primarily of aromatic and other hydrocarbons, phenolic compounds and aromatic nitrogen compounds and distills in the approximate range of 200 °C to 250 °C (392 °F to 482 °F).]	HJM	283-484-8	84650-04-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-086-00-4	Distillates (coal tar), naphthalene oils, naphthalene-low; Naphthalene Oil Redistillate; [A complex combination of hydrocarbons obtained by crystallization of naphthalene oil. Composed primarily of naphthalene, alkyl naphthalenes and phenolic compounds.]	HJM	284-898-1	84989-09-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-087-00-X	Distillates (coal tar), naphthalene oil crystn. mother liquor; Naphthalene Oil Redistillate; [A complex combination of organic compounds obtained as a filtrate from the crystallization of the naphthalene fraction from coal tar and boiling in the range of approximately 200 °C to 230 °C (392 °F to 446 °F). Contains chiefly naphthalene, thionaphthene and alkylnaphthalenes.]	HJM	295-310-8	91995-49-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-088-00-5	Extract residues (coal), naphthalene oil, alk.; Naphthalene Oil Extract Residue; [A complex combination of hydrocarbons obtained from the alkali washing of naphthalene oil to remove phenolic compounds (tar acids). It is composed of naphthalene and alkyl naphthalenes.]	HJM	310-166-9	121620-47-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-089-00-0	Extract residues (coal), naphthalene oil, alk., naphthalene-low; Naphthalene Oil Extract Residue; [A complex combination of hydrocarbons remaining after the removal of naphthalene from alkali-washed naphthalene oil by a crystallization process. It is composed primarily of naphthalene and alkyl naphthalenes.]	HJM	310-167-4	121620-48-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-090-00-6	Distillates (coal tar), naphthalene oils, naphthalene-free, alk. exts.; Naphthalene Oil Extract Residue; [The oil remaining after the removal of phenolic compounds (tar acids) from drained naphthalene oil by an alkali wash. Composed primarily of naphthalene and alkyl naphthalenes.]	HJM	292-612-1	90640-90-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-091-00-1	Extract residues (coal), naphthalene oil alk., distn. overheads; Naphthalene Oil Extract Residue; [The distillate from alkali-washed naphthalene oil having an approximate distillation range of 180 °C to 220 °C (356 °F to 428 °F). Composed primarily of naphthalene, alkylbenzenes, indene and indan.]	HJM	292-627-3	90641-04-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-092-00-7	Distillates (coal tar), naphthalene oils, methylnaphthalene fraction; Methylnaphthalene Oil; [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of substituted two ring aromatic hydrocarbons and aromatic nitrogen bases boiling in the range of approximately 225 °C to 255 °C (437 °F to 491 °F).]	HJM	309-985-4	101896-27-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-093-00-2	Distillates (coal tar), naphthalene oils, indole-methylnaphthalene fraction; Methylnaphthalene Oil; [A distillate from the fractional distillation of high temperature coal tar. Composed primarily of indole and methylnaphthalene boiling in the range of approximately 235 °C to 255 °C (455 °F to 491 °F).]	HJM	309-972-3	101794-91-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-094-00-8	Distillates (coal tar), naphthalene oils, acid exts.; Methylnaphthalene Oil Extract Residue; [A complex combination of hydrocarbons obtained by debasing the methylnaphthalene fraction obtained by the distillation of coal tar and boiling in the range of approximately 230 °C to 255 °C (446 °F to 491 °F). Contains chiefly 1(2)-methylnaphthalene, naphthalene, dimethylnaphthalene and biphenyl.]	HJM	295-309-2	91995-48-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-095-00-3	Extract residues (coal), naphthalene oil alk., distn. residues; Methylnaphthalene Oil Extract Residue; [The residue from the distillation of alkali-washed naphthalene oil having an approximate distillation range of 220 °C to 300 °C (428 °F to 572 °F). Composed primarily of naphthalene, alkylnaphthalenes and aromatic nitrogen bases.]	HJM	292-628-9	90641-05-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-096-00-9	Extract oils (coal), acidic, tar-base free; Methylnaphthalene Oil Extract Residue; [The extract oil boiling in the range of approximately 220 °C to 265 °C (428 °F to 509 °F) from coal tar alkaline extract residue produced by an acidic wash such as aqueous sulfuric acid after distillation to remove tar bases. Composed primarily of alkyl-naphthalenes.]	HJM	284-901-6	84989-12-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-097-00-4	Distillates (coal tar), benzole fraction, distn. residues; Wash Oil; [A complex combination of hydrocarbons obtained from the distillation of crude benzole (high temperature coal tar). It may be a liquid with the approximate distillation range of 150 °C to 300 °C (302 °F to 572 °F) or a semi-solid or solid with a melting point up to 70 °C (158 °F). It is composed primarily of naphthalene and alkyl naphthalenes.]	HJM	310-165-3	121620-46-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-098-00-X	Creosote oil, acenaphthene fraction; Wash Oil; [A complex combination of hydrocarbons produced by the distillation of coal tar and boiling in the range of approximately 240 °C to 280 °C (464 °F to 536 °F). Composed primarily of acenaphthene, naphthalene and alkyl naphthalene.]	H M	292-605-3	90640-84-9	Carc. Cat. 2; R45	T R: 45 S: 53-45		

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648-099-00-5	Creosote oil; [A complex combination of hydrocarbons obtained by the distillation of coal tar. It consists primarily of aromatic hydrocarbons and may contain appreciable quantities of tar acids and tar bases. It distills at the approximate range of 200 °C to 325 °C (392 °F to 617 °F).]	H M	263-047-8	61789-28-4	Carc. Cat. 2; R45	T R: 45 S: 53-45		
648-100-00-9	Creosote oil, high-boiling distillate; Wash Oil; [The high-boiling distillation fraction obtained from the high temperature carbonization of bituminous coal which is further refined to remove excess crystalline salts. It consists primarily of creosote oil with some of the normal polynuclear aromatic salts, which are components of coal tar distillates, removed. It is crystal free at approximately 5 °C (41 °F).]	H M	274-565-9	70321-79-8	Carc. Cat. 2; R45	T R: 45 S: 53-45		
648-102-00-X	Extract residues (coal), creosote oil acid; Wash Oil Extract Residue; [A complex combination of hydrocarbons from the base-freed fraction from the distillation of coal tar, boiling in the range of approximately 250 °C to 280 °C (482 °F to 536 °F). It consists predominantly of biphenyl and isomeric diphenyl-naphthalenes.]	H M	310-189-4	122384-77-4	Carc. Cat. 2; R45	T R: 45 S: 53-45		
648-103-00-5	Anthracene oil, anthracene paste; Anthracene Oil Fraction; [The anthracene-rich solid obtained by the crystallization and centrifuging of anthracene oil. It is composed primarily of anthracene, carbazole and phenanthrene.]	HJM	292-603-2	90640-81-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-104-00-0	Anthracene oil, anthracene-low; Anthracene Oil Fraction; [The oil remaining after the removal, by a crystallization process, of an anthracene-rich solid (anthracene paste) from anthracene oil. It is composed primarily of two, three and four membered aromatic compounds.]	HJM	292-604-8	90640-82-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-105-00-6	Residues (coal tar), anthracene oil distn.; Anthracene Oil Fraction; [The residue from the fraction distillation of crude anthracene boiling in the approximate range of 340 °C to 400 °C (644 °F to 752 °F). It consists predominantly of tri- and polynuclear aromatic and heterocyclic hydrocarbons.]	HJM	295-505-8	92061-92-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-106-00-1	Anthracene oil, anthracene paste, anthracene fraction; Anthracene Oil Fraction; [A complex combination of hydrocarbons from the distillation of anthracene obtained by the crystallization of anthracene oil from bituminous high temperature tar and boiling in the range of 330 °C to 350 °C (626 °F to 662 °F). It contains chiefly anthracene, carbazole and phenanthrene.]	HJM	295-275-9	91995-15-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-107-00-7	Anthracene oil, anthracene paste, carbazole fraction; Anthracene Oil Fraction; [A complex combination of hydrocarbons from the distillation of anthracene obtained by crystallization of anthracene oil from bituminous coal high temperature tar and boiling in the approximate range of 350 °C to 360 °C (662 °F to 680 °F). It contains chiefly anthracene, carbazole and phenanthrene.]	HJM	295-276-4	91995-16-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-108-00-2	Anthracene oil, anthracene paste, distn. lights; Anthracene Oil Fraction; [A complex combination of hydrocarbons from the distillation of anthracene obtained by crystallization of anthracene oil from bituminous high temperature tar and boiling in the range of approximately 290 °C to 340 °C (554 °F to 644 °F). It contains chiefly trinuclear aromatics and their dihydro derivatives.]	HJM	295-278-5	91995-17-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-109-00-8	Tar oils, coal, low-temp.; Tar Oil, high boiling; [A distillate from low-temperature coal tar. Composed primarily of hydrocarbons, phenolic compounds and aromatic nitrogen bases boiling in the range of approximately 160 °C to 340 °C (320 °F to 644 °F).]	HJM	309-889-2	101316-87-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-110-00-3	Extract residues (coal), low temp. coal atar alk.; [The residue from low temperature coal tar oils after an alkaline wash, such as aqueous sodium hydroxide, to remove crude coal tar acids. Composed primarily of hydrocarbons and aromatic nitrogen bases.]	HJM	310-191-5	122384-78-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-111-00-9	Phenols, ammonia liquor ext.; Alkaline Extract; [The combination of phenols extracted, using isobutyl acetate, from the ammonia liquor condensed from the gas evolved in low-temperature (less than 700 °C (1 292 °F)) destructive distillation of coal. It consists predominantly of a mixture of monohydric and dihydric phenols.]	HJM	284-881-9	84988-93-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-112-00-4	Distillates (coal tar), light oils, alk. exts.; Alkaline Extract; [The aqueous extract from carbolic oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.]	HJM	292-610-0	90640-88-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-113-00-X	Extracts, coal tar oil alk.; Alkaline Extract; [The extract from coal tar oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.]	HJM	266-017-2	65996-83-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-114-00-5	Distillates (coal tar), naphthalene oils, alk. exts.; Alkaline Extract; [The aqueous extract from naphthalene oil produced by an alkaline wash such as aqueous sodium hydroxide. Composed primarily of the alkali salts of various phenolic compounds.]	HJM	292-611-6	90640-89-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-115-00-0	Extract residues (coal), tar oil alk., carbonated, limed; Crude Phenols; [The product obtained by treatment of coal tar oil alkaline extract with CO ₂ and CaO. Composed primarily of CaCO ₃ , Ca(OH) ₂ , Na ₂ CO ₃ and other organic and inorganic impurities.]	HJM	292-629-4	90641-06-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-116-00-6	Tar acids, coal, crude; Crude Phenols; [The reaction product obtained by neutralizing coal tar oil alkaline extract with an acidic solution, such as aqueous sulfuric acid, or gaseous carbon dioxide, to obtain the free acids. Composed primarily of tar acids such as phenol, cresols, and xylenols.]	HJM	266-019-3	65996-85-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-117-00-1	Tar acids, brown-coal, crude; Crude Phenols; [An acidified alkaline extract of brown coal tar distillate. Composed primarily of phenol and phenol homologs.]	HJM	309-888-7	101316-86-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-118-00-7	Tar acids, brown-coal gasification; Crude Phenols; [A complex combination of organic compounds obtained from brown coal gasification. Composed primarily of C ₆₋₁₀ hydroxy aromatic phenols and their homologs.]	HJM	295-536-7	92062-22-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-119-00-2	Tar acids, distn. residues; Distillate Phenols; [A residue from the distillation of crude phenol from coal. It consists predominantly of phenols having carbon numbers in the range of C ₈ through C ₁₀ with a softening point of 60 °C to 80 °C (140 °F to 176 °F).]	HJM	306-251-5	96690-55-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-120-00-8	Tar acids, methylphenol fraction; Distillate Phenols; [The fraction of tar acid rich in 3- and 4-methylphenol, recovered by distillation of low-temperature coal tar crude tar acids.]	HJM	284-892-9	84989-04-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-121-00-3	Tar acids, polyalkylphenol fraction; Distillate Phenols; [The fraction of tar acids, recovered by distillation of low-temperature coal tar crude tar acids, having an approximate boiling range of 225 °C to 320 °C (437 °F to 608 °F). Composed primarily of polyalkylphenols.]	HJM	284-893-4	84989-05-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-122-00-9	Tar acids, xylenol fraction; Distillate Phenols; [The fraction of tar acids, rich in 2,4- and 2,5-dimethylphenol, recovered by distillation of low-temperature coal tar crude tar acids.]	HJM	284-895-5	84989-06-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-123-00-4	Tar acids, ethylphenol fraction; Distillate Phenols; [The fraction of tar acids, rich in 3- and 4-ethylphenol, recovered by distillation of low-temperature coal tar crude tar acids.]	HJM	284-891-3	84989-03-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-124-00-X	Tar acids, 3,5-xylenol fraction; Distillate Phenols; [The fraction of tar acids, rich in 3,5-dimethylphenol, recovered by distillation of low-temperature coal tar acids.]	HJM	284-896-0	84989-07-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-125-00-5	Tar acids, residues, distillates, first-cut; Distillate Phenols; [The residue from the distillation in the range of 235 °C to 355 °C (481 °F to 697 °F) of light carbolic oil.]	HJM	270-713-1	68477-23-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-126-00-0	Tar acids, cresylic, residues; Distillate Phenols; [The residue from crude coal tar acids after removal of phenol, cresols, xylenols and any higher boiling phenols. A black solid with a melting point approximately 80 °C (176 °F). Composed primarily of polyalkylphenols, resin gums, and inorganic salts.]	HJM	271-418-0	68555-24-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-127-00-6	Phenols, C ₉₋₁₁ ; Distillate Phenols	HJM	293-435-2	91079-47-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-128-00-1	Tar acids, cresylic; Distillate Phenols; [A complex combination of organic compounds obtained from brown coal and boiling in the range of approximately 200 °C to 230 °C (392 °F to 446 °F). It contains chiefly phenols and pyridine bases.]	HJM	295-540-9	92062-26-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-129-00-7	Tar acids, brown-coal, C ₂ -alkyl-phenol fraction; Distillate Phenols; [The distillate from the acidification of alkaline washed lignite tar distillate boiling in the range of approximately 200 °C to 230 °C (392 °F to 446 °F). Composed primarily of <i>m</i> - and <i>p</i> -ethylphenol as well as cresols and xylenols.]	HJM	302-662-9	94114-29-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-130-00-2	Extract oils (coal), naphthalene oils; Acid Extract; [The aqueous extract produced by an acidic wash of alkali-washed naphthalene oil. Composed primarily of acid salts of various aromatic nitrogen bases including pyridine, quinoline and their alkyl derivatives.]	HJM	292-623-1	90641-00-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-131-00-8	Tar bases, quinoline derivs.; Distillate Bases	HJM	271-020-7	68513-87-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-132-00-3	Tar bases, coal, quinoline derivs. fraction; Distillate Bases	HJM	274-560-1	70321-67-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-133-00-9	Tar bases, coal, distn. residues; Distillate Bases; [The distillation residue remaining after the distillation of the neutralized, acid-extracted base-containing tar fractions obtained by the distillation of coal tars. It contains chiefly aniline, collidines, quinoline and quinoline derivatives and toluidines.]	HJM	295-544-0	92062-29-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-134-00-4	Hydrocarbon oils, arom., mixed with polyethylene and polypropylene, pyrolyzed, light oil fraction; Heat Treatment Products; [The oil obtained from the heat treatment of a polyethylene/polypropylene mixture with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of approximately 70 °C to 120 °C (158 °F to 248 °F).]	HJM	309-745-9	100801-63-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-135-00-X	Hydrocarbon oils, arom., mixed with polyethylene, pyrolyzed, light oil fraction; Heat Treatment Products; [The oil obtained from the heat treatment of polyethylene with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of 70 °C to 120 °C (158 °F to 248 °F).]	HJM	309-748-5	100801-65-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-136-00-5	Hydrocarbon oils, arom., mixed with polystyrene, pyrolyzed, light oil fraction; Heat Treatment Products; [The oil obtained from the heat treatment of polystyrene with coal tar pitch or aromatic oils. It consists predominantly of benzene and its homologs boiling in a range of approximately 70 °C to 210 °C (158 °F to 410 °F).]	HJM	309-749-0	100801-66-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-137-00-0	Extract residues (coal), tar oil alk., naphthalene distn. residues; Naphthalene Oil Extract Residue; [The residue obtained from chemical oil extracted after the removal of naphthalene by distillation composed primarily of two to four membered condensed ring aromatic hydrocarbons and aromatic nitrogen bases.]	HJM	277-567-8	73665-18-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-138-00-6	Creosote oil, low-boiling distillate; Wash Oil; [The low-boiling distillation fraction obtained from the high temperature carbonization of bituminous coal, which is further refined to remove excess crystalline salts. It consists primarily of creosote oil with some of the normal polynuclear aromatic salts, which are components of coal tar distillate, removed. It is crystal free at approximately 38 °C (100 °F).]	H M	274-566-4	70321-80-1	Carc. Cat. 2; R45	T R: 45 S: 53-45		
648-139-00-1	Tar acids, cresylic, sodium salts, caustic solns.; Alkaline Extract	HJM	272-361-4	68815-21-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-140-00-7	Extract oils (coal), tar base; Acid Extract; [The extract from coal tar oil alkaline extract residue produced by an acidic wash such as aqueous sulfuric acid after distillation to remove naphthalene. Composed primarily of the acid salts of various aromatic nitrogen bases including pyridine, quinoline, and their alkyl derivatives.]	HJM	266-020-9	65996-86-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-141-00-2	Tar bases, coal, crude; Crude Tar Bases; [The reaction product obtained by neutralizing coal tar base extract oil with an alkaline solution, such as aqueous sodium hydroxide, to obtain the free bases. Composed primarily of such organic bases as acridine, phenanthridine, pyridine, quinoline and their alkyl derivatives.]	HJM	266-018-8	65996-84-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-147-00-5	Light oil (coal), coke-oven; Crude benzole; [The volatile organic liquid extracted from the gas evolved in the high temperature (greater than 700 °C (1 292 °F)) destructive distillation of coal. Composed primarily of benzene, toluene, and xylenes. May contain other minor hydrocarbon constituents.]	H J	266-012-5	65996-78-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-148-00-0	Distillates (coal), liq. solvent extrn., primary; [The liquid product of condensation of vapors emitted during the digestion of coal in a liquid solvent and boiling in the range of approximately 30 °C to 300 °C (86 °F to 572 °F). Composed primarily of partly hydrogenated condensed-ring aromatic hydrocarbons, aromatic compounds containing nitrogen, oxygen and sulfur, and their alkyl derivatives having carbon numbers predominantly in the range of C ₄ through C ₁₄ .]	H J	302-688-0	94114-52-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-149-00-6	Distillates (coal), solvent extrn., hydrocracked; [Distillate obtained by hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 30 °C to 300 °C (86 °F to 572 °F). Composed primarily of aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes with carbon numbers predominantly in the range of C ₄ through C ₁₄ . Nitrogen, sulfur and oxygen-containing aromatic and hydrogenated aromatic compounds are also present.]	H J	302-689-6	94114-53-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-150-00-1	Naphtha (coal), solvent extn., hydrocracked; [Fraction of the distillate obtained by hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 30 °C to 180 °C (86 °F to 356 °F). Composed primarily of aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes with carbon numbers predominantly in the range of C ₄ to C ₉ . Nitrogen, sulfur and oxygen-containing aromatic and hydrogenated aromatic compounds are also present.]	H J	302-690-1	94114-54-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-152-00-2	Distillates (coal), solvent extn., hydrocracked middle; [Distillate obtained from the hydrocracking of coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 180 °C to 300 °C (356 °F to 572 °F). Composed primarily of two-ring aromatic, hydrogenated aromatic and naphthenic compounds, their alkyl derivatives and alkanes having carbon numbers predominantly in the range of C ₉ through C ₁₄ . Nitrogen, sulfur and oxygen-containing compounds are also present.]	H J	302-692-2	94114-56-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		

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648-153-00-8	Distillates (coal), solvent extrn., hydrocracked hydrogenated middle; [Distillate from the hydrogenation of hydrocracked middle distillate from coal extract or solution produced by the liquid solvent extraction or supercritical gas extraction processes and boiling in the range of approximately 180 °C to 280 °C (356 °F to 536 °F). Composed primarily of hydrogenated two- ring carbon compounds and their alkyl derivatives having carbon numbers predominantly in the range of C ₉ through C ₁₄ .]	H J	302-693-8	94114-57-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
648-156-00-4	Light oil (coal), semi-coking process; Fresh oil; [The volatile organic liquid condensed from the gas evolved in the low-temperature (less than 700 °C (1 292 °F)) destructive distillation of coal. Composed primarily of C ₆₋₁₀ hydrocarbons.]	H J	292-635-7	90641-11-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46	T R: 45-46 S: 53-45		
649-062-00-6	Gases (petroleum), catalytic cracked naphtha depropanizer overhead, C ₃ -rich acid-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked hydrocarbons and treated to remove acidic impurities. It consists of hydrocarbons having carbon numbers in the range of C ₂ through C ₄ , predominantly C ₃ .]	H K	270-755-0	68477-73-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-063-00-1	Gases (petroleum), catalytic cracker; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of the products from a catalytic cracking process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	270-756-6	68477-74-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-064-00-7	Gases (petroleum), catalytic cracker, C ₁₋₅ -rich; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C ₁ through C ₆ , predominantly C ₁ through C ₅ .]	H K	270-757-1	68477-75-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-065-00-2	Gases (petroleum), catalytic polymd. naphtha stabilizer overhead, C ₂₋₄ -rich; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of catalytic polymerized naphtha. It consists of aliphatic hydrocarbons having carbon numbers in the range of C ₂ through C ₆ , predominantly C ₂ through C ₄ .]	H K	270-758-7	68477-76-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-066-00-8	Gases (petroleum), catalytic reformer, C ₁₋₄ -rich; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers in the range of C ₁ through C ₆ , predominantly C ₁ through C ₄ .]	H K	270-760-8	68477-79-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-067-00-3	Gases (petroleum), C ₃₋₅ olefinic-paraffinic alkylation feed; Petroleum gas; [A complex combination of olefinic and paraffinic hydrocarbons having carbon numbers in the range of C ₃ through C ₅ which are used as alkylation feed. Ambient temperatures normally exceed the critical temperature of these combinations.]	H K	270-765-5	68477-83-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-068-00-9	Gases (petroleum), C ₄ -rich; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from a catalytic fractionation process. It consists of aliphatic hydrocarbons having carbon numbers in the range of C ₃ through C ₅ , predominantly C ₄ .]	H K	270-767-6	68477-85-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-069-00-4	Gases (petroleum), deethanizer overheads; Petroleum gas; [A complex combination of hydrocarbons produced from distillation of the gas and gasoline fractions from the catalytic cracking process. It contains predominantly ethane and ethylene.]	H K	270-768-1	68477-86-1	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-070-00-X	Gases (petroleum), deisobutanizer tower overheads; Petroleum gas; [A complex combination of hydrocarbons produced by the atmospheric distillation of a butane-butylene stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₄ .]	H K	270-769-7	68477-87-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-071-00-5	Gases (petroleum), depropanizer dry, propene-rich; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from the gas and gasoline fractions of a catalytic cracking process. It consists predominantly of propylene with some ethane and propane.]	H K	270-772-3	68477-90-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-072-00-0	Gases (petroleum), depropanizer overheads; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from the gas and gasoline fractions of a catalytic cracking process. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₄ .]	H K	270-773-9	68477-91-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-073-00-6	Gases (petroleum), gas recovery plant depropanizer overheads; Petroleum gas; [A complex combination of hydrocarbons obtained by fractionation of miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₁ through C ₄ , predominantly propane.]	H K	270-777-0	68477-94-1	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-074-00-1	Gases (petroleum), Girbatol unit feed; Petroleum gas; [A complex combination of hydrocarbons that is used as the feed into the Girbatol unit to remove hydrogen sulfide. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₄ .]	H K	270-778-6	68477-95-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-075-00-7	Gases (petroleum), isomerized naphtha fractionator, C ₄ -rich, hydrogen sulfide-free; Petroleum gas	H K	270-782-8	68477-99-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-076-00-2	Tail gas (petroleum), catalytic cracked clarified oil and thermal cracked vacuum residue fractionation reflux drum; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked clarified oil and thermal cracked vacuum residue. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	270-802-5	68478-21-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-077-00-8	Tail gas (petroleum), catalytic cracked naphtha stabilization absorber; Petroleum gas; [A complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	270-803-0	68478-22-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-078-00-3	Tail gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfurizer combined fractionator; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of products from catalytic cracking, catalytic reforming and hydrodesulfurizing processes treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	270-804-6	68478-24-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-079-00-9	Tail gas (petroleum), catalytic reformed naphtha fractionation stabilizer; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of catalytic reformed naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	270-806-7	68478-26-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-080-00-4	Tail gas (petroleum), saturate gas plant mixed stream, C ₄ -rich; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of straight-run naphtha, distillation tail gas and catalytic reformed naphtha stabilizer tail gas. It consists of hydrocarbons having carbon numbers in the range of C ₃ through C ₆ , predominantly butane and isobutane.]	H K	270-813-5	68478-32-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-081-00-X	Tail gas (petroleum), saturate gas recovery plant, C _{1,2} -rich; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of distillate tail gas, straight-run naphtha, catalytic reformed naphtha stabilizer tail gas. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₁ through C ₅ , predominantly methane and ethane.]	H K	270-814-0	68478-33-1	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-082-00-5	Tail gas (petroleum), vacuum residues thermal cracker; Petroleum gas; [A complex combination of hydrocarbons obtained from the thermal cracking of vacuum residues. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	270-815-6	68478-34-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-083-00-0	Hydrocarbons, C _{3,4} -rich, petroleum distillate; Petroleum gas; [A complex combination of hydrocarbons produced by distillation and condensation of crude oil. It consists of hydrocarbons having carbon numbers in the range of C ₃ through C ₅ , predominantly C ₃ through C ₄ .]	H K	270-990-9	68512-91-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-084-00-6	Gases (petroleum), full-range straight-run naphtha dehexanizer off; petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of the full-range straight-run naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₆ .]	H K	271-000-8	68513-15-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-085-00-1	Gases (petroleum), hydrocracking depropanizer off, hydrocarbon-rich; Petroleum gas; [A complex combination of hydrocarbon produced by the distillation of products from a hydrocracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ . It may also contain small amounts of hydrogen and hydrogen sulfide.]	H K	271-001-3	68513-16-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-086-00-7	Gases (petroleum), light straight-run naphtha stabilizer off; Petroleum gas; [A complex combination of hydrocarbons obtained by the stabilization of light straight-run naphtha. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₆ .]	H K	271-002-9	68513-17-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-087-00-2	Residues (petroleum), alkylation splitter, C ₄ -rich; Petroleum gas; [A complex residuum from the distillation of streams various refinery operations. It consists of hydrocarbons having carbon numbers in the range of C ₄ through C ₅ , predominantly butane and boiling in the range of approximately -11.7 °C to 27.8 °C (11 °F to 82 °F).]	H K	271-010-2	68513-66-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-088-00-8	Hydrocarbons, C ₁₋₄ ; Petroleum gas; [A complex combination of hydrocarbons provided by thermal cracking and absorber operations and by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ and boiling in the range of approximately minus 164 °C to minus 0.5 °C (-263 °F to 31 °F).]	H K	271-032-2	68514-31-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-089-00-3	Hydrocarbons, C ₁₋₄ , sweetened; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting hydrocarbon gases to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ and boiling in the range of approximately -164 °C to -0.5 °C (-263 °F to 31 °F).]	H K	271-038-5	68514-36-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-090-00-9	Hydrocarbons, C ₁₋₃ ; Petroleum gas; [A complex combination of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ and boiling in the range of approximately minus 164 °C to minus 42 °C (-263 °F to -44 °F).]	H K	271-259-7	68527-16-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-091-00-4	Hydrocarbons, C ₁₋₄ , debutanizer fraction; Petroleum gas	H K	271-261-8	68527-19-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-092-00-X	Gases (petroleum), C ₁₋₅ , wet; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil and/or the cracking of tower gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	271-624-0	68602-83-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-093-00-5	Hydrocarbons, C ₂₋₄ ; Petroleum gas	H K	271-734-9	68606-25-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-094-00-0	Hydrocarbons, C ₃ ; Petroleum gas	H K	271-735-4	68606-26-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-095-00-6	Gases (petroleum), alkylation feed; Petroleum gas; [A complex combination of hydrocarbons produced by the catalytic cracking of gas oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₄ .]	H K	271-737-5	68606-27-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-096-00-1	Gases (petroleum), depropanizer bottoms fractionation off; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of depropanizer bottoms. It consists predominantly of butane, isobutane and butadiene.]	H K	271-742-2	68606-34-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-097-00-7	Gases (petroleum), refinery blend; Petroleum gas; [A complex combination obtained from various processes. It consists of hydrogen, hydrogen sulfide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	272-183-7	68783-07-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-098-00-2	Gases (petroleum), catalytic cracking; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of the products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₅ .]	H K	272-203-4	68783-64-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-099-00-8	Gases (petroleum), C ₂₋₄ , sweetened; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₄ and boiling in the range of approximately -51 °C to -34 °C (-60 °F to -30 °F).]	H K	272-205-5	68783-65-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-100-00-1	Gases (petroleum), crude oil fractionation off; Petroleum gas; [A complex combination of hydrocarbons produced by the fractionation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	272-871-7	68918-99-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-101-00-7	Gases (petroleum), dehexanizer off; Petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of combined naphtha streams. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	272-872-2	68919-00-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-102-00-2	Gases (petroleum), light straight run gasoline fractionation stabilizer off; Petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of light straight-run gasoline. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	272-878-5	68919-05-1	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-103-00-8	Gases (petroleum), naphtha unifiner desulfurization stripper off; Petroleum gas; [A complex combination of hydrocarbons produced by a naphtha unifiner desulfurization process and stripped from the naphtha product. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	272-879-0	68919-06-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-104-00-3	Gases (petroleum), straight-run naphtha catalytic reforming off; Petroleum gas; [A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and fractionation of the total effluent. It consists of methane, ethane, and propane.]	H K	272-882-7	68919-09-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-105-00-9	Gases (petroleum), fluidized catalytic cracker splitter overheads; Petroleum gas; [A complex combination of hydrocarbons produced by the fractionation of the charge to the C ₃ -C ₄ splitter. It consists predominantly of C ₃ hydrocarbons.]	H K	272-893-7	68919-20-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-106-00-4	Gases (petroleum), straight-run stabilizer off; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation of the liquid from the first tower used in the distillation of crude oil. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	272-883-2	68919-10-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-107-00-X	Gases (petroleum), catalytic cracked naphtha debutanizer; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked naphtha. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	273-169-3	68952-76-1	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-108-00-5	Tail gas (petroleum), catalytic cracked distillate and naphtha stabilizer; Petroleum gas; [A complex combination of hydrocarbons obtained by the fractionation of catalytic cracked naphtha and distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	273-170-9	68952-77-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-109-00-0	Tail gas (petroleum), thermal-cracked distillate, gas oil and naphtha absorber; petroleum gas; [A complex combination of hydrocarbons obtained from the separation of thermal-cracked distillates, naphtha and gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	273-175-6	68952-81-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-110-00-6	Tail gas (petroleum), thermal cracked hydrocarbon fractionation stabilizer, petroleum coking; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization of thermal cracked hydrocarbons from petroleum coking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	273-176-1	68952-82-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-111-00-1	Gases (petroleum, light steam-cracked, butadiene conc.; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from a thermal cracking process. It consists of hydrocarbons having a carbon number predominantly of C ₄ .]	H K	273-265-5	68955-28-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-112-00-7	Gases (petroleum), straight-run naphtha catalytic reformer stabilizer overhead; Petroleum gas; [A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha and the fractionation of the total effluent. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₄ .]	H K	273-270-2	68955-34-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-113-00-2	Hydrocarbons, C ₄ ; Petroleum gas	H K	289-339-5	87741-01-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-114-00-8	Alkanes, C ₁₋₄ , C ₃ -rich; Petroleum gas	H K	292-456-4	90622-55-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-115-00-3	Gases (petroleum), steam-cracker C ₃ -rich; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from a steam cracking process. It consists predominantly of propylene with some propane and boils in the range of approximately -70 °C to 0 °C (-94 °F to 32 °F).]	H K	295-404-9	92045-22-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-116-00-9	Hydrocarbons, C ₄ , steam-cracker distillate; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of the products of a steam cracking process. It consists predominantly of hydrocarbons having a carbon number of C ₄ , predominantly 1-butene and 2-butene, containing also butane and isobutene and boiling in the range of approximately minus 12 °C to 5 °C (10.4 °F to 41 °F).]	H K	295-405-4	92045-23-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-117-00-4	Petroleum gases, liquefied, sweetened, C ₄ fraction; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting a liquified petroleum gas mix to a sweetening process to oxidize mercaptans or to remove acidic impurities. It consists predominantly of C ₄ saturated and unsaturated hydrocarbons.]	HKS	295-463-0	92045-80-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-118-00-X	Hydrocarbons, C ₄ , 1,3-butadiene- and isobutene-free; Petroleum gas	H K	306-004-1	95465-89-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-119-00-5	Raffinates (petroleum), steam-cracked C ₄ fraction cuprous ammonium acetate extn., C ₃₋₅ and C ₃₋₅ unsatd., butadiene-free; Petroleum gas	H K	307-769-4	97722-19-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-120-00-0	Gases (petroleum), amine system feed; Refinery gas; [The feed gas to the amine system for removal of hydrogen sulfide. It consists of hydrogen. Carbon monoxide, carbon dioxide, hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ may also be present.]	H K	270-746-1	68477-65-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-121-00-6	Gases (petroleum), benzene unit hydrodesulfurizer off; Refinery gas; [Off gases produced by the benzene unit. It consists primarily of hydrogen. Carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ , including benzene, may also be present.]	H K	270-747-7	68477-66-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-122-00-1	Gases (petroleum), benzene unit recycle, hydrogen-rich; Refinery gas; [A complex combination of hydrocarbons obtained by recycling the gases of the benzene unit. It consists primarily of hydrogen with various small amounts of carbon monoxide and hydrocarbons having carbon numbers in the range of C ₁ through C ₆ .]	H K	270-748-2	68477-67-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-123-00-7	Gases (petroleum), blend oil, hydrogen-nitrogen-rich; Refinery gas; [A complex combination of hydrocarbons obtained by distillation of a blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide, and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	270-749-8	68477-68-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-124-00-2	Gases (petroleum), catalytic reformed naphtha stripper overheads; Refinery gas; [A complex combination of hydrocarbons obtained from stabilization of catalytic reformed naphtha. Its consists of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	270-759-2	68477-77-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-125-00-8	Gases (petroleum), C ₆₋₈ catalytic reformer recycle; Refinery gas; [A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C ₆ -C ₈ feed and recycled to conserve hydrogen. It consists primarily of hydrogen. It may also contain various small amounts of carbon monoxide, carbon dioxide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	270-761-3	68477-80-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-126-00-3	Gases (petroleum), C ₆₋₈ catalytic reformer; Refinery gas; [A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C ₆ -C ₈ feed. It consists of hydrocarbons having carbon numbers in the range of C ₁ through C ₅ and hydrogen.]	H K	270-762-9	68477-81-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-127-00-9	Gases (petroleum), C ₆₋₈ catalytic reformer recycle, hydrogen-rich; Refinery gas	H K	270-763-4	68477-82-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-128-00-4	Gases (petroleum), C ₂ -return stream; Refinery gas; [A complex combination of hydrocarbons obtained by the extraction of hydrogen from a gas stream which consists primarily of hydrogen with small amounts of nitrogen, carbon monoxide, methane, ethane, and ethylene. It contains predominantly hydrocarbons such as methane, ethane, and ethylene with small amounts of hydrogen, nitrogen and carbon monoxide.]	H K	270-766-0	68477-84-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-129-00-X	Gases (petroleum), dry sour, gas-concn.-unit-off; Refinery gas; [The complex combination of dry gases from a gas concentration unit. It consists of hydrogen, hydrogen sulfide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .]	H K	270-774-4	68477-92-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-130-00-5	Gases (petroleum), gas concn. reabsorber distn.; Refinery gas; [A complex combination of hydrocarbons produced by distillation of products from combined gas streams in a gas concentration reabsorber. It consists predominantly of hydrogen, carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide and hydrocarbons having carbon numbers in the range of C ₁ through C ₃ .]	H K	270-776-5	68477-93-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-131-00-0	Gases (petroleum), hydrogen absorber off; Refinery gas; [A complex combination obtained by absorbing hydrogen from a hydrogen rich stream. It consists of hydrogen, carbon monoxide, nitrogen, and methane with small amounts of C ₂ hydrocarbons.]	H K	270-779-1	68477-96-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-132-00-6	Gases (petroleum), hydrogen-rich; Refinery gas; [A complex combination separated as a gas from hydrocarbon gases by chilling. It consists primarily of hydrogen with various small amounts of carbon monoxide, nitrogen, methane, and C ₂ hydrocarbons.]	H K	270-780-7	68477-97-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-133-00-1	Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas; [A complex combination obtained from recycled hydro-treated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	270-781-2	68477-98-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-134-00-7	Gases (petroleum), recycle, hydrogen-rich; Refinery gas; [A complex combination obtained from recycled reactor gases. It consists primarily of hydrogen with various small amounts of carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide, and saturated aliphatic hydrocarbons having carbon numbers in the range of C ₁ through C ₅ .]	H K	270-783-3	68478-00-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-135-00-2	Gases (petroleum), reformer make-up, hydrogen-rich; Refinery gas; [A complex combination obtained from the reformers. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	270-784-9	68478-01-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-136-00-8	Gases (petroleum), reforming hydrotreater; Refinery gas; [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen, methane, and ethane with various small amounts of hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₅ .]	H K	270-785-4	68478-02-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-137-00-3	Gases (petroleum), reforming hydrotreater, hydrogen-methane-rich; Refinery gas; [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen and methane with various small amounts of carbon monoxide, carbon dioxide, nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₅ .]	H K	270-787-5	68478-03-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-138-00-9	Gases (petroleum), reforming hydrotreater make-up, hydrogen-rich; Refinery gas; [A complex combination obtained from the reforming hydrotreating process. It consists primarily of hydrogen with various small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	270-788-0	68478-04-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-139-00-4	Gases (petroleum), thermal cracking distn.; Refinery gas; [A complex combination produced by distillation of products from a thermal cracking process. It consists of hydrogen, hydrogen sulfide, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	270-789-6	68478-05-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-140-00-X	Tail gas (petroleum), catalytic cracker refractionation absorber; Refinery gas; [A complex combination of hydrocarbons obtained from refractionation of products from a catalytic cracking process. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .]	H K	270-805-1	68478-25-1	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-141-00-5	Tail gas (petroleum), catalytic reformed naphtha separator; Refinery gas; [A complex combination of hydrocarbons obtained from the catalytic reforming of straight run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	270-807-2	68478-27-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-142-00-0	Tail gas (petroleum), catalytic reformed naphtha stabilizer; Refinery gas; [A complex combination of hydrocarbons obtained from the stabilization of catalytic reformed naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	270-808-8	68478-28-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-143-00-6	Tail gas (petroleum), cracked distillate hydrotreater separator; Refinery gas; [A complex combination of hydrocarbons obtained by treating cracked distillates with hydrogen in the presence of a catalyst. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	270-809-3	68478-29-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-144-00-1	Tail gas (petroleum), hydrodesulfurized straight-run naphtha separator; Refinery gas; [A complex combination of hydrocarbons obtained from hydrodesulfurization of straight-run naphtha. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	270-810-9	68478-30-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-145-00-7	Gases (petroleum), catalytic reformed straight-run naphtha stabilizer overheads; Refinery gas; [A complex combination of hydrocarbons obtained from the catalytic reforming of straight-run naphtha followed by fractionation of the total effluent. It consists of hydrogen, methane, ethane and propane.]	H K	270-999-8	68513-14-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-146-00-2	Gases (petroleum), reformer effluent high-pressure flash drum off; Refinery gas; [A complex combination produced by the high-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]	H K	271-003-4	68513-18-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-147-00-8	Gases (petroleum), reformer effluent low-pressure flash drum off; Refinery gas; [A complex combination produced by low-pressure flashing of the effluent from the reforming reactor. It consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]	H K	271-005-5	68513-19-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-148-00-3	Gases (petroleum), oil refinery gas distn. off; Refinery gas; [A complex combination separated by distillation of a gas stream containing hydrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers in the range of C ₁ through C ₆ or obtained by cracking ethane and propane. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₂ , hydrogen, nitrogen, and carbon monoxide.]	H K	271-258-1	68527-15-1	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-149-00-9	Gases (petroleum), benzene unit hydrotreater depentanizer overheads; Refinery gas; [A complex combination produced by treating the feed from the benzene unit with hydrogen in the presence of a catalyst followed by depentanizing. It consists primarily of hydrogen, ethane and propane with various small amounts of nitrogen, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ . It may contain trace amounts of benzene.]	H K	271-623-5	68602-82-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-150-00-4	Gases (petroleum), secondary absorber off, fluidized catalytic cracker overheads fractionator; Refinery gas; [A complex combination produced by the fractionation of the overhead products from the catalytic cracking process in the fluidized catalytic cracker. It consists of hydrogen, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .]	H K	271-625-6	68602-84-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-151-00-X	Petroleum products, refinery gases; Refinery gas; [A complex combination which consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]	H K	271-750-6	68607-11-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-152-00-5	Gases (petroleum), hydrocracking low-pressure separator; Refinery gas; [A complex combination obtained by the liquid-vapor separation of the hydrocracking process reactor effluent. It consists predominantly of hydrogen and saturated hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .]	H K	272-182-1	68783-06-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-153-00-0	Gases (petroleum), refinery; Refinery gas; [A complex combination obtained from various petroleum refining operations. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .]	H K	272-338-9	68814-67-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-154-00-6	Gases (petroleum), platformer products separator off; Refinery gas; [A complex combination obtained from the chemical reforming of naphthenes to aromatics. It consists of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₄ .]	H K	272-343-6	68814-90-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-155-00-1	Gases (petroleum), hydrotreated sour kerosine depentanizer stabilizer off; Refinery gas; [The complex combination obtained from the depentanizer stabilization of hydrotreated kerosine. It consists primarily of hydrogen, methane, ethane, and propane with various small amounts of nitrogen, hydrogen sulfide, carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₅ .]	H K	272-775-5	68911-58-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-156-00-7	Gases (petroleum), hydrotreated sour kerosine flash drum; Refinery gas; [A complex combination obtained from the flash drum of the unit treating sour kerosine with hydrogen in the presence of a catalyst. It consists primarily of hydrogen and methane with various small amounts of nitrogen, carbon monoxide, and hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₅ .]	H K	272-776-0	68911-59-1	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-157-00-2	Gases (petroleum), distillate unifier desulfurization stripper off; Refinery gas; [A complex combination stripped from the liquid product of the unifier desulfurization process. It consists of hydrogen sulfide, methane, ethane, and propane.]	H K	272-873-8	68919-01-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-158-00-8	Gases (petroleum), fluidized catalytic cracker fractionation off; Refinery gas; [A complex combination produced by the fractionation of the overhead product of the fluidized catalytic cracking process. It consists of hydrogen, hydrogen sulfide, nitrogen, and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	272-874-3	68919-02-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-159-00-3	Gases (petroleum), fluidized catalytic cracker scrubbing secondary absorber off; Refinery gas; [A complex combination produced by scrubbing the overhead gas from the fluidized catalytic cracker. It consists of hydrogen, nitrogen, methane, ethane and propane.]	H K	272-875-9	68919-03-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-160-00-9	Gases (petroleum), heavy distillate hydrotreater desulfurization stripper off; Refinery gas; [A complex combination stripped from the liquid product of the heavy distillate hydrotreater desulfurization process. It consists of hydrogen, hydrogen sulfide, and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	272-876-4	68919-04-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-161-00-4	Gases (petroleum), platformer stabilizer off, light ends fractionation; Refinery gas; [A complex combination obtained by the fractionation of the light ends of the platinum reactors of the platformer unit. It consists of hydrogen, methane, ethane and propane.]	H K	272-880-6	68919-07-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-162-00-X	Gases (petroleum), preflash tower off, crude distn.; Refinery gas; [A complex combination produced from the first tower used in the distillation of crude oil. It consists of nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	272-881-1	68919-08-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-163-00-5	Gases (petroleum), tar stripper off; Refinery gas; [A complex combination obtained by the fractionation of reduced crude oil. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	272-884-8	68919-11-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-164-00-0	Gases (petroleum), unifiner stripper off; Refinery gas; [A combination of hydrogen and methane obtained by fractionation of the products from the unifiner unit.]	H K	272-885-3	68919-12-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-165-00-6	Tail gas (petroleum), catalytic hydrodesulfurized naphtha separator; Refinery gas; [A complex combination of hydrocarbons obtained from the hydrodesulfurization of naphtha. It consists of hydrogen, methane, ethane, and propane.]	H K	273-173-5	68952-79-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-166-00-1	Tail gas (petroleum), straight-run naphtha hydrodesulfurizer; Refinery gas; [A complex combination obtained from the hydrodesulfurization of straight-run naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	273-174-0	68952-80-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-167-00-7	Gases (petroleum), sponge absorber off, fluidized catalytic cracker and gas oil desulfurizer overhead fractionation; Refinery gas; [A complex combination obtained by the fractionation of products from the fluidized catalytic cracker and gas oil desulfurizer. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	273-269-7	68955-33-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-168-00-2	Gases (petroleum), crude distn. and catalytic cracking; Refinery gas; [A complex combination produced by crude distillation and catalytic cracking processes. It consists of hydrogen, hydrogen sulfide, nitrogen, carbon monoxide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	273-563-5	68989-88-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-169-00-8	Gases (petroleum), gas oil diethanolamine scrubber off; Refinery gas; [A complex combination produced by desulfurization of gas oils with diethanolamine. It consists predominantly of hydrogen sulfide, hydrogen and aliphatic hydrocarbons having carbon numbers in the range of C ₁ through C ₅ .]	H K	295-397-2	92045-15-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-170-00-3	Gases (petroleum), gas oil hydrodesulfurization effluent; Refinery gas; [A complex combination obtained by separation of the liquid phase from the effluent from the hydrogenation reaction. It consists predominantly of hydrogen, hydrogen sulfide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .]	H K	295-398-8	92045-16-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-171-00-9	Gases (petroleum), gas oil hydrodesulfurization purge; Refinery gas; [A complex combination of gases obtained from the reformer and from the purges from the hydrogenation reactor. It consists predominantly of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	295-399-3	92045-17-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-172-00-4	Gases (petroleum), hydrogenator effluent flash drum off; Refinery gas; [A complex combination of gases obtained from flash of the effluents after the hydrogenation reaction. It consists predominantly of hydrogen and aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	295-400-7	92045-18-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-173-00-X	Gases (petroleum), naphtha steam cracking high-pressure residual; Refinery gas; [A complex combination obtained as a mixture of the non-condensable portions from the product of a naphtha steam cracking process as well as residual gases obtained during the preparation of subsequent products. It consists predominantly of hydrogen and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ with which natural gas may also be mixed.]	H K	295-401-2	92045-19-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-174-00-5	Gases (petroleum), residue vis-baking off; Refinery gas; [A complex combination obtained from viscosity reduction of residues in a furnace. It consists predominantly of hydrogen sulfide and paraffinic and olefinic hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	295-402-8	92045-20-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-177-00-1	Gases (petroleum), C ₃₋₄ ; Petroleum gas; [A complex combination of hydrocarbons produced by distillation of products from the cracking of crude oil. It consists of hydrocarbons having carbon numbers in the range of C ₃ through C ₄ , predominantly of propane and propylene, and boiling in the range of approximately -51 °C to -1 °C (-60 °F to 30 °F).]	H K	268-629-5	68131-75-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-178-00-7	Tail gas (petroleum), catalytic cracked distillate and catalytic cracked naphtha fractionation absorber; Petroleum gas; [The complex combination of hydrocarbons from the distillation of the products from catalytic cracked distillates and catalytic cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₁ through C ₄ .]	H K	269-617-2	68307-98-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-179-00-2	Tail gas (petroleum), catalytic polymn. naphtha fractionation stabilizer; Petroleum gas; [A complex combination of hydrocarbons from the fractionation stabilization products from polymerization of naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₁ through C ₄ .]	H K	269-618-8	68307-99-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-180-00-8	Tail gas (petroleum), catalytic reformed naphtha fractionation stabilizer, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation stabilization of catalytic reformed naphtha and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	269-619-3	68308-00-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-181-00-3	Tail gas (petroleum), cracked distillate hydrotreater stripper; Petroleum gas; [A complex combination of hydrocarbons obtained by treating thermal cracked distillates with hydrogen in the presence of a catalyst. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	269-620-9	68308-01-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-182-00-9	Tail gas (petroleum), straight-run distillate hydrodesulfurizer, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of straight run distillates and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	269-630-3	68308-10-1	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-183-00-4	Tail gas (petroleum), gas oil catalytic cracking absorber; Petroleum gas; [A complex combination of hydrocarbons obtained from the distillation of products from the catalytic cracking of gas oil. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	269-623-5	68308-03-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-184-00-X	Tail gas (petroleum), gas recovery plant; Petroleum gas; [A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	269-624-0	68308-04-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-185-00-5	Tail gas (petroleum), gas recovery plant deethanizer; Petroleum gas; [A complex combination of hydrocarbons from the distillation of products from miscellaneous hydrocarbon streams. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	269-625-6	68308-05-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-186-00-0	Tail gas (petroleum), hydrodesulfurized distillate and hydrodesulfurized naphtha fractionator, acid-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of hydrodesulfurized naphtha and distillate hydrocarbon streams and treated to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H K	269-626-1	68308-06-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-187-00-6	Tail gas (petroleum), hydrodesulfurized vacuum gas oil stripper, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from stripping stabilization of catalytic hydrodesulfurized vacuum gas oil and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	269-627-7	68308-07-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-188-00-1	Tail gas (petroleum), light straight-run naphtha stabilizer, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation stabilization of light straight run naphtha and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₃ .]	H K	269-629-8	68308-09-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-189-00-7	Tail gas (petroleum), propane-propylene alkylation feed prep deethanizer; Petroleum gas; [A complex combination of hydrocarbons obtained from the distillation of the reaction products of propane with propylene. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	269-631-9	68308-11-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-190-00-2	Tail gas (petroleum), vacuum gas oil hydrodesulfurizer, hydrogen sulfide-free; Petroleum gas; [A complex combination of hydrocarbons obtained from catalytic hydrodesulfurization of vacuum gas oil and from which hydrogen sulfide has been removed by amine treatment. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₆ .]	H K	269-632-4	68308-12-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-191-00-8	Gases (petroleum), catalytic cracked overheads; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from the catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₅ and boiling in the range of approximately -48 °C to 32 °C (-54 °F to 90 °F).]	H K	270-071-2	68409-99-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-193-00-9	Alkanes, C ₁₋₂ ; Petroleum gas	H K	270-651-5	68475-57-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-194-00-4	Alkanes, C ₂₋₃ ; Petroleum gas	H K	270-652-0	68475-58-1	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-195-00-X	Alkanes, C ₃₋₄ ; petroleum gas	H K	270-653-6	68475-59-2	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-196-00-5	Alkanes, C ₄₋₅ ; Petroleum gas	H K	270-654-1	68475-60-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-197-00-0	Fuel gases; Petroleum gas; [A combination of light gases. It consists predominantly of hydrogen and/or low molecular weight hydrocarbons.]	H K	270-667-2	68476-26-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-198-00-6	Fuel gases, crude oil of distillates; Petroleum gas; [A complex combination of light gases produced by distillation of crude oil and by catalytic reforming of naphtha. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ and boiling in the range of approximately -217 °C to -12 °C (-423 °F to 10 °F).]	H K	270-670-9	68476-29-9	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-199-00-1	Hydrocarbons, C _{3,4} ; Petroleum gas	H K	270-681-9	68476-40-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-200-00-5	Hydrocarbons, C _{4,5} ; Petroleum gas	H K	270-682-4	68476-42-6	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-201-00-0	Hydrocarbons, C _{2,4} , C ₃ -rich; Petroleum gas	H K	270-689-2	68476-49-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-202-00-6	Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₇ and boiling in the range of approximately -40 °C to 80 °C (-40 °F to 176 °F).]	HKS	270-704-2	68476-85-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-203-00-1	Petroleum gases, liquefied, sweetened; Petroleum gas; [A complex combination of hydrocarbons obtained by subjecting liquefied petroleum gas mix to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₇ and boiling in the range of approximately -40 °C to 80 °C (-40 °F to 176 °F).]	HKS	270-705-8	68476-86-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-204-00-7	gases (petroleum), C ₃₋₄ , isobutane-rich; Petroleum gas; [A complex combination of hydrocarbons from the distillation of saturated and unsaturated hydrocarbons usually ranging in carbon numbers from C ₃ through C ₆ , predominantly butane and isobutane. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C ₃ through C ₄ , predominantly isobutane.]	H K	270-724-1	68477-33-8	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-205-00-2	Distillates (petroleum), C ₃₋₆ , piperylene-rich; Petroleum gas; [A complex combination of hydrocarbons from the distillation of saturated and unsaturated aliphatic hydrocarbons usually ranging in the carbon numbers C ₃ through C ₆ . It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C ₃ through C ₆ , predominantly piperlenes.]	H K	270-726-2	68477-35-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-206-00-8	Gases (petroleum), butane splitter overheads; Petroleum gas; [A complex combination of hydrocarbons obtained from the distillation of the butane stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₄ .]	H K	270-750-3	68477-69-0	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-207-00-3	Gases (petroleum), C ₂₋₃ ; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic fractionation process. It contains predominantly ethane, ethylene, propane, and propylene.]	H K	270-751-9	68477-70-3	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-208-00-9	Gases (petroleum), catalytic-cracked gas oil depropanizer bottoms, C ₄ -rich acid-free; Petroleum gas; [A complex combination of hydrocarbons obtained from fractionation of catalytic cracked gas oil hydrocarbon stream and treated to remove hydrogen sulfide and other acidic components. It consists of hydrocarbons having carbon numbers in the range of C ₃ through C ₅ , predominantly C ₄ .]	H K	270-752-4	68477-71-4	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-209-00-4	Gases (petroleum), catalytic-cracked naphtha debutanizer bottoms, C ₃₋₅ -rich; Petroleum gas; [A complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₅ .]	H K	270-754-5	68477-72-5	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		

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649-210-00-X	Tail gas (petroleum), isomerized naphtha fractionation stabilizer; Petroleum gas; [A complex combination of hydrocarbons obtained from the fractionation stabilization products from isomerized naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₄ .]	H K	269-628-2	68308-08-7	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	F+; T R: 45-46-12 S: 53-45		
649-261-00-8	Gasoline, natural; Low boiling point naphtha; [A complex combination of hydrocarbons separated from natural gas by processes such as refrigeration or absorption. It consists predominantly of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₈ and boiling in the range of approximately minus 20 °C to 120 °C (-4 °F to 248 °F).]	H P	232-349-1	8006-61-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-262-00-3	Naphtha; Low boiling point naphtha; [Refined, partly refined, or unrefined petroleum products produced by the distillation of natural gas. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₆ and boiling in the range of approximately 100 °C to 200 °C (212 °F to 392 °F).]	H P	232-443-2	8030-30-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-263-00-9	Ligroine; Low boiling point naphtha; [A complex combination of hydrocarbons obtained by the fractional distillation of petroleum. This fraction boils in a range of approximately 20 °C to 135 °C (58 °F to 275 °F).]	H P	232-453-7	8032-32-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-264-00-4	Naphtha (petroleum), heavy straight-run; Low boiling point naphtha; [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ and boiling in the range of approximately 65 °C to 230 °C (149 °F to 446 °F).]	H P	265-041-0	64741-41-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-265-00-X	Naphtha (petroleum), full-range straight-run; Low boiling point naphtha; [A complex combination of hydrocarbons produced by distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately -20 °C to 220 °C (-4 °F to 428 °F).]	H P	265-042-6	64741-42-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-266-00-5	Naphtha (petroleum), light straight-run; Low boiling point naphtha; [A complex combination of hydrocarbons produced by distillation of crude oil. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₀ and boiling in the range of approximately -20 °C to 180 °C (-4 °F to 356 °F).]	H P	265-046-8	64741-46-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-267-00-0	Solvent naphtha (petroleum), light aliph.; Low boiling point naphtha; [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₀ and boiling in the range of approximately 35 °C to 160 °C (95 °F to 320 °F).]	H P	265-192-2	64742-89-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-268-00-6	Distillates (petroleum), straight-run light; Low boiling point naphtha; [A complex combination of hydrocarbons produced by the distillation of crude oil It consists of hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₇ and boiling in the range of approximately -88 °C to 99 °C (-127 °F to 210 °F).]	H P	270-077-5	68410-05-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-269-00-1	Gasoline, vapor-recovery; Low boiling point naphtha; [A complex combination of hydrocarbons separated from the gases from vapor recovery systems by cooling. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately -20 °C to 196 °C (-4 °F to 384 °F).]	H P	271-025-4	68514-15-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-270-00-7	Gasoline, straight-run, topping-plant; Low boiling point naphtha; [A complex combination of hydrocarbons produced from the topping plant by the distillation of crude oil. It boils in the range of approximately 36.1 °C to 193.3 °C (97 °F to 380 °F).]	H P	271-727-0	68606-11-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-271-00-2	Naphtha (petroleum), unsweetened; Low boiling point naphtha; [A complex combination of hydrocarbons produced from the distillation of naphtha streams from various refinery processes It consists of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₂ and boiling in the range of approximately 0 °C to 230 °C (25 °F to 446 °F).]	H P	272-186-3	68783-12-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-272-00-8	Distillates (petroleum), light straight-run gasoline fractionation stabilizer overheads; Low boiling point naphtha; [A complex combination of hydrocarbons obtained by the fractionation of light straight-run gasoline. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₆ .]	H P	272-931-2	68921-08-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-273-00-3	Naphtha (petroleum), heavy straight run, arom.-contg.; Low boiling point naphtha; [A complex combination of hydrocarbons obtained from a distillation process of crude petroleum. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₈ through C ₁₂ and boiling in the range of approximately 130 °C to 210 °C (266 °F to 410 °F).]	H P	309-945-6	101631-20-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-274-00-9	Naphtha (petroleum), full-range alkylate; Low boiling point modified naphtha; [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C ₃ through C ₅ . It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 90 °C to 220 °C (194 °F to 428 °F).]	H P	265-066-7	64741-64-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-275-00-4	Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha; [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C ₃ to C ₅ . It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C ₉ through C ₁₂ and boiling in the range of approximately 150 °C to 220 °C (302 °F to 428 °F).]	H P	265-067-2	64741-65-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-276-00-X	Naphtha (petroleum), light alkylate; Low boiling point modified naphtha; [A complex combination of hydrocarbons produced by distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C ₃ through C ₅ . It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₀ and boiling in the range of approximately 90 °C to 160 °C (194 °F to 320 °F).]	H P	265-068-8	64741-66-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-277-00-5	Naphtha (petroleum), isomerization; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained from catalytic isomerization of straight chain paraffinic C ₄ through C ₆ hydrocarbons. It consists predominantly of saturated hydrocarbons such as isobutane, isopentane, 2,2-dimethylbutane, 2-methylpentane, and 3-methylpentane.]	H P	265-073-5	64741-70-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-278-00-0	Naphtha (petroleum), solvent-refined light; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₁ and boiling in the range of approximately 35 °C to 190 °C (95 °F to 374 °F).]	H P	265-086-6	64741-84-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-279-00-6	Naphtha (petroleum), solvent-refined heavy; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained as the raffinate from a solvent extraction process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 90 °C to 230 °C (194 °F to 446 °F).]	H P	265-095-5	64741-92-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-280-00-1	Raffinates (petroleum), catalytic reformer ethylene glycol-water countercurrent exts.; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained as the raffinate from the UDEX extraction process on the catalytic reformer stream. It consists of saturated hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₉ .]	H P	270-088-5	68410-71-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-281-00-7	Raffinates (petroleum), reformer, Lurgi unit-sepd.; Low boiling point modified naphtha; [The complex combination of hydrocarbons obtained as a raffinate from a Lurgi separation unit. It consists predominantly of non-aromatic hydrocarbons with various small amounts of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₈ .]	H P	270-349-3	68425-35-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-282-00-2	Naphtha (petroleum), full-range alkylate, butane-contg.; Low boiling point modified naphtha; [A complex combination of hydrocarbons produced by the distillation of the reaction products of isobutane with monoolefinic hydrocarbons usually ranging in carbon numbers from C ₃ through C ₅ . It consists of predominantly branched chain saturated hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ with some butanes and boiling in the range of approximately 35 °C to 200 °C (95 °F to 428 °F).]	H P	271-267-0	68527-27-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-283-00-8	Distillates (petroleum), naphtha steam cracking-derived, solvent-refined light hydrotreated; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained as the raffinates from a solvent extraction process of hydrotreated light distillate from steam-cracked naphtha.]	H P	295-315-5	91995-53-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-284-00-3	Naphtha (petroleum), C ₄₋₁₂ butane-alkylate, isoctane-rich; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained by alkylation of butanes. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₂ , rich in isoctane, and boiling in the range of approximately 35 °C to 210 °C (95 °F to 410 °F).]	H P	295-430-0	92045-49-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-285-00-9	Hydrocarbons, hydrotreated light naphtha distillates, solvent-refined; Low boiling point modified naphtha; [A combination of hydrocarbons obtained from the distillation of hydrotreated naphtha followed by a solvent extraction and distillation process. It consists predominantly of saturated hydrocarbons boiling in the range of approximately 94 °C to 99 °C (201 °F to 210 °F).]	H P	295-436-3	92045-55-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-286-00-4	Naphtha (petroleum), isomerization, C ₆ -fraction; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained by distillation of a gasoline which has been catalytically isomerized. It consists predominantly of hexane isomers boiling in the range of approximately 60 °C to 66 °C (140 °F to 151 °F).]	H P	295-440-5	92045-58-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-287-00-X	Hydrocarbons, C ₆₋₇ , naphtha-cracking, solvent-refined; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained by the sorption of benzene from a catalytically fully hydrogenated benzene-rich hydrocarbon cut that was distillatively obtained from prehydrogenated cracked naphtha. It consists predominantly of paraffinic and naphthenic hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₇ and boiling in the range of approximately 70 °C to 100 °C (158 °F to 212 °F).]	H P	295-446-8	92045-64-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-288-00-5	Hydrocarbons, C ₆ -rich, hydro-treated light naphtha distillates, solvent-refined; Low boiling point modified naphtha; [A complex combination of hydrocarbons obtained by distillation of hydrotreated naphtha followed by solvent extraction. It consists predominantly of saturated hydrocarbons and boiling in the range of approximately 65 °C to 70 °C (149 °F to 158 °F).]	H P	309-871-4	101316-67-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-289-00-0	Naphtha (petroleum), heavy catalytic cracked; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons produced by a distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ and boiling in the range of approximately 65 °C to 230 °C (148 °F to 446 °F). It contains a relatively large proportion of unsaturated hydrocarbons.]	H P	265-055-7	64741-54-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-290-00-6	Naphtha (petroleum), light catalytic cracked; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F). It contains a relatively large proportion of unsaturated hydrocarbons.]	H P	265-056-2	64741-55-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-291-00-1	Hydrocarbons, C ₃₋₁₁ , catalytic cracker distillates; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons produced by the distillations of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₁₁ and boiling in a range approximately up to 204 °C (400 °F).]	H P	270-686-6	68476-46-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-292-00-7	Naphtha (petroleum), catalytic cracked light distd.; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic cracking process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₁ through C ₅ .]	H P	272-185-8	68783-09-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-293-00-2	Distillates (petroleum), naphtha steam cracking-derived, hydro-treated light arom.; Low boiling point cat-cracked naphtha.; [A complex combination of hydrocarbons obtained by treating a light distillate from steam-cracked naphtha. It consists predominantly of aromatic hydrocarbons.]	H P	295-311-3	91995-50-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-294-00-8	Naphtha (petroleum), heavy catalytic cracked, sweetened; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons obtained by subjecting a catalytic cracked petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ and boiling in the range of approximately 60 °C to 200 °C (140 °F to 392 °F).]	H P	295-431-6	92045-50-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-295-00-3	Naphtha (petroleum), light catalytic cracked sweetened; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons obtained by subjecting naphtha from a catalytic cracking process to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons boiling in a range of approximately 35 °C to 210 °C (95 °F to 410 °F).]	H P	295-441-0	92045-59-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-296-00-9	Hydrocarbons, C ₈₋₁₂ , catalytic-cracking, chem. neutralized; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons produced by the distillation of a cut from the catalytic cracking process, having undergone an alkaline washing. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₈ through C ₁₂ and boiling in the range of approximately 130 °C to 210 °C (266 °F to 410 °F).]	H P	295-794-0	92128-94-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-297-00-4	Hydrocarbons, C ₈₋₁₂ , catalytic cracker distillates; Low boiling point cat-cracked naphtha; [A complex combination of hydrocarbons obtained by distillation of products from a catalytic cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₈ through C ₁₂ and boiling in the range of approximately 140 °C to 210 °C (284 °F to 410 °F).]	H P	309-974-4	101794-97-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-298-00-X	Hydrocarbons, C ₈₋₁₂ , catalytic cracking, chem. neutralized, sweetened; Low boiling point cat-cracked naphtha	H P	309-987-5	101896-28-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-299-00-5	Naphtha (petroleum), light catalytic reformed; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons produced from the distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₁ and boiling in the range of approximately 35 °C to 190 °C (95 °F to 374 °F). It contains a relatively large proportion of aromatic and branched chain hydrocarbons. This stream may contain 10 vol. % or more benzene.]	H P	265-065-1	64741-63-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-300-00-9	Naphtha (petroleum), heavy catalytic reformed; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons produced from the distillation of products from a catalytic reforming process. It consists of predominantly aromatic hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 90 °C to 230 °C (194 °F to 446 °F).]	H P	265-070-9	64741-68-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-301-00-4	Distillates (petroleum), catalytic reformed depentanizer; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons from the distillation of products from a catalytic reforming process. It consists predominantly of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₆ and boiling in the range of approximately -49 °C to 63 °C (-57 °F to 145 °F).]	H P	270-660-4	68475-79-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-302-00-X	Hydrocarbons, C ₂₋₆ , C ₆₋₈ catalytic reformer; Low boiling point cat-reformed naphtha	H P	270-687-1	68476-47-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-303-00-5	Residues (petroleum), C ₆₋₈ catalytic reformer; Low boiling point cat-reformed naphtha; [A complex residuum from the catalytic reforming of C ₆₋₈ feed. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₆ .]	H P	270-794-3	68478-15-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-304-00-0	Naphtha (petroleum), light catalytic reformed, arom.-free; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained from distillation of products from a catalytic reforming process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₈ and boiling in the range of approximately 35 °C to 120 °C (95 °F to 248 °F). It contains a relatively large proportion of branched chain hydrocarbons with the aromatic components removed.]	H P	270-993-5	68513-03-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-305-00-6	Distillates (petroleum), catalytic reformed straight-run naphtha overheads; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained by the catalytic reforming of straight-run naphtha followed by the fractionation of the total effluent. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₆ .]	H P	271-008-1	68513-63-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-306-00-1	Petroleum products, hydrofiner-powerformer reformates; Low boiling point cat-reformed naphtha; [The complex combination of hydrocarbons obtained in a hydrofiner-powerformer process and boiling in a range of approximately 27 °C to 210 °C (80 °F to 410 °F).]	H P	271-058-4	68514-79-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-307-00-7	Naphtha (petroleum), full-range reformed; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons produced by the distillation of the products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₂ and boiling in the range of approximately 35 °C to 230 °C (95 °F to 446 °F).]	H P	272-895-8	68919-37-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-308-00-2	Naphtha (petroleum), catalytic reformed; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons produced by the distillation of products from a catalytic reforming process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₂ and boiling in the range of approximately 30 °C to 220 °C (90 °F to 430 °F). It contains a relatively large proportion of aromatic and branched chain hydrocarbons. This stream may contain 10 vol. % or more benzene.]	H P	273-271-8	68955-35-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-309-00-8	Distillates (petroleum), catalytic reformed hydrotreated light, C ₈₋₁₂ arom. fraction; Low boiling point cat-reformed naphtha; [A complex combination of alkylbenzenes obtained by the catalytic reforming of petroleum naphtha. It consists predominantly of alkylbenzenes having carbon numbers predominantly in the range of C ₈ through C ₁₀ and boiling in the range of approximately 160 °C to 180 °C (320 °F to 356 °F).]	H P	285-509-8	85116-58-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-310-00-3	Aromatic hydrocarbons, C ₈ , catalytic reforming-derived; Low boiling point cat-reformed naphtha	H P	295-279-0	91995-18-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-311-00-9	Aromatic hydrocarbons, C ₇₋₁₂ , C ₈ -rich; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ (primarily C ₈) and can contain non-aromatic hydrocarbons, both boiling in the range of approximately 130 °C to 200 °C (266 °F to 392 °F).]	H P	297-401-8	93571-75-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-312-00-4	Gasoline, C ₅₋₁₁ , high-octane stabilized reformed; Low boiling point cat-reformed naphtha; [A complex high octane combination of hydrocarbons obtained by the catalytic dehydrogenation of a predominantly naphthenic naphtha. It consists predominantly of aromatics and non-aromatics having carbon numbers predominantly in the range of C ₅ through C ₁₁ and boiling in the range of approximately 45 °C to 185 °C (113 °F to 365 °F).]	H P	297-458-9	93572-29-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-313-00-X	Hydrocarbons, C ₇₋₁₂ , C _{>9} -arom.-rich, reforming heavy fraction; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of nonaromatic hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 120 °C to 210 °C (248 °F to 380 °F) and C ₉ and higher aromatic hydrocarbons.]	H P	297-465-7	93572-35-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-314-00-5	Hydrocarbons, C ₅₋₁₁ , nonarom.-rich, reforming light fraction; Low boiling point cat-reformed naphtha; [A complex combination of hydrocarbons obtained by separation from the platformate-containing fraction. It consists predominantly of nonaromatic hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₁ and boiling in the range of approximately 35 °C to 125 °C (94 °F to 257 °F), benzene and toluene.]	H P	297-466-2	93572-36-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-316-00-6	Naphtha (petroleum), light thermal cracked; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons from distillation of products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₈ and boiling in the range of approximately -10 °C to 130 °C (14 °F to 266 °F).]	H P	265-075-6	64741-74-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-317-00-1	Naphtha (petroleum), heavy thermal cracked; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons from distillation of the products from a thermal cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ and boiling in the range of approximately 65 °C to 220 °C (148 °F to 428 °F).]	H P	265-085-0	64741-83-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-318-00-7	Distillates (petroleum), heavy arom.; Low boiling point thermally cracked naphtha; [The complex combination of hydrocarbons from the distillation of the products from the thermal cracking of ethane and propane. This higher boiling fraction consists predominantly of C ₅₋₇ aromatic hydrocarbons with some unsaturated aliphatic hydrocarbons having carbon number predominantly of C ₅ . This stream may contain benzene.]	H P	267-563-4	67891-79-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-319-00-2	Distillates (petroleum), light arom.; Low boiling point thermally cracked naphtha; [The complex combination of hydrocarbons from the distillation of the products from the thermal cracking of ethane and propane. This lower boiling fraction consists predominantly of C ₅₋₇ aromatic hydrocarbons with some unsaturated aliphatic hydrocarbons having a carbon number predominantly of C ₅ . This stream may contain benzene.]	H P	267-565-5	67891-80-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-320-00-8	Distillates (petroleum), naphtha-raffinate pyrolyzate-derived, gasoline-blending; Low boiling point thermally cracked naphtha; [The complex combination of hydrocarbons obtained by the pyrolysis fractionation at 816 °C (1 500 °F) of naphtha and raffinate. It consists predominantly of hydrocarbons having a carbon number of C ₉ and boiling at approximately 204 °C (400 °F).]	H P	270-344-6	68425-29-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-321-00-3	Aromatic hydrocarbons, C ₆₋₈ , naphtha-raffinate pyrolyzate-derived; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons obtained by the fractionation pyrolysis at 816 °C (1 500 °F) of naphtha and raffinate. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₈ , including benzene.]	H P	270-658-3	68475-70-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-322-00-9	Distillates (petroleum), thermal cracked naphtha and gas oil; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons produced by distillation of thermally cracked naphtha and/or gas oil. It consists predominantly of olefinic hydrocarbons having a carbon number of C ₅ and boiling in the range of approximately 33 °C to 60 °C (91 °F to 140 °F).]	H P	271-631-9	68603-00-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-323-00-4	Distillates (petroleum), thermal cracked naphtha and gas oil, C ₅ -dimer-contg.; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons produced by the extractive distillation of thermal cracked naphtha and/or gas oil. It consists predominantly of hydrocarbons having a carbon number of C ₅ with some dimerized C ₅ olefins and boiling in the range of approximately 33 °C to 184 °C (91 °F to 363 °F).]	H P	271-632-4	68603-01-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-324-00-X	Distillates (petroleum), thermal cracked naphtha and gas oil, extractive; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons produced by the extractive distillation of thermal cracked naphtha and/or gas oil.. It consists of paraffinic and olefinic hydrocarbons, predominantly isoamylenes such as 2-methyl-1-butene and 2-methyl-2-butene and boiling in the range of approximately 31 °C to 40 °C (88 °F to 104 °F).]	H P	271-634-5	68603-03-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-325-00-5	Distillates (petroleum), light thermal cracked, debutanized arom.; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons produced by the distillation of products from a thermal cracking process. It consists predominantly of aromatic hydrocarbons, primarily benzene.]	H P	273-266-0	68955-29-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-326-00-0	Naphtha (petroleum), light thermal cracked, sweetened; Low boiling point thermally cracked naphtha; [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate from the high temperature thermal cracking of heavy oil fractions to a sweetening process to convert mercaptans. It consists predominantly of aromatics, olefins and saturated hydrocarbons boiling in the range of approximately 20 °C to 100 °C (68 °F to 212 °F).]	H P	295-447-3	92045-65-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-327-00-6	Naphtha (petroleum), hydro-treated heavy; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₃ and boiling in the range of approximately 65 °C to 230 °C (149 °F to 446 °F).]	H P	265-150-3	64742-48-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-328-00-1	Naphtha (petroleum), hydro-treated light; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately minus 20 °C to 190 °C (-4 °F to 374 °F).]	H P	265-151-9	64742-49-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-329-00-7	Naphtha (petroleum), hydrodesulfurized light; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).]	H P	265-178-6	64742-73-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-330-00-2	Naphtha (petroleum), hydrodesulfurized heavy; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 90 °C to 230 °C (194 °F to 446 °F).]	H P	265-185-4	64742-82-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-331-00-8	Distillates (petroleum), hydro-treated middle, intermediate boiling; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by the distillation of products from a middle distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₀ and boiling in the range of approximately 127 °C to 188 °C (262 °F to 370 °F).]	H P	270-092-7	68410-96-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-332-00-3	Distillates (petroleum), light distillate hydrotreating process, low-boiling; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by the distillation of products from the light distillate hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₉ and boiling in the range of approximately 3 °C to 194 °C (37 °F to 382 °F).]	H P	270-093-2	68410-97-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-333-00-9	Distillates (petroleum), hydro-treated heavy naphtha, deisohexanizer overheads; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by distillation of the products from a heavy naphtha hydrotreating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₆ and boiling in the range of approximately -49 °C to 68 °C (-57 °F to 155 °F).]	H P	270-094-8	68410-98-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-334-00-4	Solvent naphtha (petroleum), light arom., hydrotreated; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₈ through C ₁₀ and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).]	H P	270-988-8	68512-78-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-335-00-X	Naphtha (petroleum), hydrodesulfurized thermal cracked light; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by fractionation of hydrodesulfurized thermal cracker distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ to C ₁₁ and boiling in the range of approximately 23 °C to 195 °C (73 °F to 383 °F).]	H P	285-511-9	85116-60-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-336-00-5	Naphtha (petroleum), hydro-treated light, cycloalkane-contg.; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained from the distillation of a petroleum fraction. It consists predominantly of alkanes and cycloalkanes boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).]	H P	285-512-4	85116-61-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-337-00-0	Naphtha (petroleum), heavy steam-cracked, hydrogenated; Low boiling point hydrogen treated naphtha	H P	295-432-1	92045-51-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-338-00-6	Naphtha (petroleum), hydrodesulfurized full-range; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately 30 °C to 250 °C (86 °F to 482 °F).]	H P	295-433-7	92045-52-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-339-00-1	Naphtha (petroleum), hydro-treated light steam-cracked; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction, derived from a pyrolysis process, with hydrogen in the presence of a catalyst. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₁ and boiling in the range of approximately 35 °C to 190 °C (95 °F to 374 °F).]	H P	295-438-4	92045-57-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-340-00-7	Hydrocarbons, C ₄₋₁₂ , naphtha-cracking, hydrotreated; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by distillation from the product of a naphtha steam cracking process and subsequent catalytic selective hydrogenation of gum formers. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₂ and boiling in the range of approximately 30 °C to 230 °C (86 °F to 446 °F).]	H P	295-443-1	92045-61-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-341-00-2	Solvent naphtha (petroleum), hydrotreated light naphthenic; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists predominantly of cycloparaffinic hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₇ and boiling in the range of approximately 73 °C to 85 °C (163 °F to 185 °F).]	H P	295-529-9	92062-15-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-342-00-8	Naphtha (petroleum), light steam-cracked, hydrogenated; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons produced from the separation and subsequent hydrogenation of the products of a steam-cracking process to produce ethylene. It consists predominantly of saturated and unsaturated paraffins, cyclic paraffins and cyclic aromatic hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₀ and boiling in the range of approximately 50 °C to 200 °C (122 °F to 392 °F).The proportion of benzene hydrocarbons may vary up to 30 wt. % and the stream may also contain small amounts of sulfur and oxygenated compounds.]	H P	296-942-7	93165-55-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-343-00-3	Hydrocarbons, C ₆₋₁₁ , hydro-treated, dearomatized; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained as solvents which have been subjected to hydrotreatment in order to convert aromatics to naphthenes by catalytic hydrogenation.]	H P	297-852-0	93763-33-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-344-00-9	Hydrocarbons, C ₉₋₁₂ , hydro-treated, dearomatized; Low boiling point hydrogen treated naphtha; [A complex combination of hydrocarbons obtained as solvents which have been subjected to hydrotreatment in order to convert aromatics to naphthenes by catalytic hydrogenation.]	H P	297-853-6	93763-34-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-345-00-4	Stoddard solvent; Low boiling point naphtha — unspecified; [A colorless, refined petroleum distillate that is free from rancid or objectionable odors and that boils in a range of approximately 148.8 °C to 204.4 °C. (300 °F to 400 °F).]	H P	232-489-3	8052-41-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-346-00-X	Natural gas condensates (petroleum); Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons separated as a liquid from natural gas in a surface separator by retrograde condensation. It consists mainly of hydrocarbons having carbon numbers predominantly in the range of C ₂ to C ₂₀ . It is a liquid at atmospheric temperature and pressure.]	H P	265-047-3	64741-47-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-347-00-5	Natural gas (petroleum), raw liq. mix; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons separated as a liquid from natural gas in a gas recycling plant by processes such as refrigeration or absorption. It consists mainly of saturated aliphatic hydrocarbons having carbon numbers in the range of C ₂ through C ₈ .]	H P	265-048-9	64741-48-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-348-00-0	Naphtha (petroleum), light hydrocracked; Low boiling naphtha — unspecified; [A complex combination of hydrocarbons from distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₀ , and boiling in the range of approximately -20 °C to 180 °C (-4 °F to 356 °F).]	H P	265-071-4	64741-69-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-349-00-6	Naphtha (petroleum), heavy hydrocracked; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons from distillation of the products from a hydrocracking process. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ , and boiling in the range of approximately 65 °C to 230 °C (148 °F to 446 °F).]	H P	265-079-8	64741-78-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-350-00-1	Naphtha (petroleum), sweetened; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₂ and boiling in the range of approximately -10 °C to 230 °C (14 °F to 446 °F).]	H P	265-089-2	64741-87-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-351-00-7	Naphtha (petroleum), acid-treated; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained as a raffinate from a sulfuric acid treating process. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 90 °C to 230 °C (194 °F to 446 °F).]	H P	265-115-2	64742-15-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-352-00-2	Naphtha (petroleum), chemically neutralized heavy; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₂ and boiling in the range of approximately 65 °C to 230 °C (149 °F to 446 °F).]	H P	265-122-0	64742-22-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-353-00-8	Naphtha (petroleum), chemically neutralized light; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons produced by a treating process to remove acidic materials. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately -20 °C to 190 °C (-4 °F to 374 °F).]	H P	265-123-6	64742-23-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-354-00-3	Naphtha (petroleum), catalytic dewaxed; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained from the catalytic dewaxing of a petroleum fraction. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₂ and boiling in the range of approximately 35 °C to 230 °C (95 °F to 446 °F).]	H P	265-170-2	64742-66-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-355-00-9	Naphtha (petroleum), light steam-cracked; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the distillation of the products from a steam cracking process. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately minus 20 °C to 190 °C (-4 °F to 374 °F). This stream is likely to contain 10 vol. % or more benzene.]	H P	265-187-5	64742-83-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-356-00-4	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₈ through C ₁₀ and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).]	H P	265-199-0	64742-95-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-357-00-X	Aromatic hydrocarbons, C ₆₋₁₀ , acid-treated, neutralized; Low boiling point naphtha — unspecified	H P	268-618-5	68131-49-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-358-00-5	Distillates (petroleum), C ₃₋₅ , 2-methyl-2-butene-rich; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons from the distillation of hydrocarbons usually ranging in carbon numbers from C ₃ through C ₅ , predominantly isopentane and 3-methyl-1-butene. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C ₃ through C ₅ , predominantly 2-methyl-2-butene.]	H P	270-725-7	68477-34-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-359-00-0	Distillates (petroleum), polymd. steam-cracked petroleum distillates, C ₅₋₁₂ fraction; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained from the distillation of polymerized steam-cracked petroleum distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₂ .]	H P	270-735-1	68477-50-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-360-00-6	Distillates (petroleum), steam-cracked, C ₅₋₁₂ fraction; Low boiling point naphtha — unspecified; [A complex combination of organic compounds obtained by the distillation of products from a steam cracking process. It consists of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₁₂ .]	H P	270-736-7	68477-53-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-361-00-1	Distillates (petroleum), steam-cracked, C ₅₋₁₀ fraction, mixed with light steam-cracked petroleum naphtha C ₅ fraction; Low boiling point naphtha — unspecified	H P	270-738-8	68477-55-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-362-00-7	Extracts (petroleum), cold-acid, C ₄₋₆ ; Low boiling point naphtha — unspecified; [A complex combination of organic compounds produced by cold acid unit extraction of saturated and unsaturated aliphatic hydrocarbons usually ranging in carbon numbers from C ₃ through C ₆ , predominantly pentanes and amylenes. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers in the range of C ₄ through C ₆ , predominantly C ₅ .]	H P	270-741-4	68477-61-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-363-00-2	Distillates (petroleum), depentanizer overheads; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained from a catalytic cracked gas stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₆ .]	H P	270-771-8	68477-89-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-364-00-8	Residues (petroleum), butane splitter bottoms; Low boiling point naphtha — unspecified; [A complex residuum from the distillation of butane stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₆ .]	H P	270-791-7	68478-12-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-365-00-3	Residual oils (petroleum), deisobutanizer tower; Low boiling point naphtha — unspecified; [A complex residuum from the atmospheric distillation of the butane-butylene stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₆ .]	H P	270-795-9	68478-16-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-366-00-9	Naphtha (petroleum), full-range coker; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons produced by the distillation of products from a fluid coker. It consists predominantly of unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₅ and boiling in the range of approximately 43 °C to 250 °C (110 °F-500 °F).]	H P	270-991-4	68513-02-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-367-00-4	Naphtha (petroleum), steam-cracked middle arom.; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons produced by the distillation of products from a steam-cracking process. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 130 °C to 220 °C (266 °F to 428 °F).]	H P	271-138-9	68516-20-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-368-00-X	Naphtha (petroleum), clay-treated full-range straight-run; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons resulting from treatment of full-range straight-run naphtha with natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately -20 °C to 220 °C (-4 °F to 429 °F).]	H P	271-262-3	68527-21-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-369-00-5	Naphtha (petroleum), clay-treated light straight-run; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons resulting from treatment of light straight-run naphtha with a natural or modified clay, usually in a percolation process to remove the trace amounts of polar compounds and impurities present. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₀ and boiling in the range of approximately 93 °C to 180 °C (200 °F to 356 °F).]	H P	271-263-9	68527-22-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-370-00-0	Naphtha (petroleum), light steam-cracked arom.; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₉ and boiling in the range of approximately 110 °C to 165 °C (230 °F to 329 °F).]	H P	271-264-4	68527-23-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-371-00-6	Naphtha (petroleum), light steam-cracked, debenzenized; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons produced by distillation of products from a steam-cracking process. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₂ and boiling in the range of approximately 80 °C to 218 °C (176 °F to 424 °F).]	H P	271-266-5	68527-26-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-372-00-1	Naphtha (petroleum), arom.-contg.; Low boiling point naphtha — unspecified	H P	271-635-0	68603-08-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-373-00-7	Gasoline, pyrolysis, debutanizer bottoms; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained from the fractionation of depropanizer bottoms. It consists of hydrocarbons having carbon numbers predominantly greater than C ₃ .]	H P	271-726-5	68606-10-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-374-00-2	Naphtha (petroleum), light, sweetened; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum distillate to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of saturated and unsaturated hydrocarbons having carbon numbers predominantly in the range of C ₃ through C ₆ and boiling in the range of approximately -20 °C to 100 °C (-4 °F to 212 °F).]	H P	272-206-0	68783-66-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-375-00-8	Natural gas condensates; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons separated and/or condensed from natural gas during transportation and collected at the wellhead and/or from the production, gathering, transmission, and distribution pipelines in deeps, scrubbers, etc. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₈ .]	H J	272-896-3	68919-39-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-376-00-3	Distillates (petroleum), naphtha unrefined; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons produced by stripping the products from the naphtha unrefined. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C ₂ through C ₆ .]	H P	272-932-8	68921-09-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-377-00-9	Naphtha (petroleum), catalytic reformed light, arom.-free fraction; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons remaining after removal of aromatic compounds from catalytic reformed light naphtha in a selective absorption process. It consists predominantly of paraffinic and cyclic compounds having carbon numbers predominantly in the range of C ₅ to C ₈ and boiling in the range of approximately 66 °C to 121 °C (151 °F to 250 °F).]	H P	285-510-3	85116-59-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-378-00-4	Gasoline; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons consisting primarily of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having carbon numbers predominantly greater than C ₃ and boiling in the range of 30 °C to 260 °C (86 °F to 500 °F).]	H P	289-220-8	86290-81-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-379-00-X	Aromatic hydrocarbons, C ₇₋₈ , dealkylation products, distn. residues; Low boiling point naphtha — unspecified	H P	292-698-0	90989-42-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-380-00-5	Hydrocarbons, C ₄₋₆ , depentanizer lights, arom. hydrotreater; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained as first runnings from the depentanizer column before hydrotreatment of the aromatic charges. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₆ , predominantly pentanes and pentenes, and boiling in the range of approximately 25 °C to 40 °C (77 °F to 104 °F).]	H P	295-298-4	91995-38-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-381-00-0	Distillates (petroleum), heat-soaked steam-cracked naphtha, C ₅ -rich; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by distillation of heat-soaked steam-cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₄ through C ₆ , predominantly C ₅ .]	H P	295-302-4	91995-41-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-382-00-6	Extracts (petroleum), catalytic reformed light naphtha solvent; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained as the extract from the solvent extraction of a catalytically reformed petroleum cut. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₈ and boiling in the range of approximately 100 °C to 200 °C (212 °F to 392 °F).]	H P	295-331-2	91995-68-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-383-00-1	Naphtha (petroleum), hydrodesulfurized light, dearomatized; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by distillation of hydrodesulfurized and dearomatized light petroleum fractions. It consists predominantly of C ₇ paraffins and cycloparaffins boiling in a range of approximately 90 °C to 100 °C (194 °F to 212 °F).]	H P	295-434-2	92045-53-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-384-00-7	Naphtha (petroleum), light, C ₅ -rich, sweetened; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₅ , predominantly C ₅ , and boiling in the range of approximately minus 10 °C to 35 °C (14 °F to 95 °F).]	H P	295-442-6	92045-60-8	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-385-00-2	Hydrocarbons, C ₈₋₁₁ , naphtha-cracking, toluene cut; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by distillation from prehydrogenated cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₈ through C ₁₁ and boiling in the range of approximately 130 °C to 205 °C (266 °F to 401 °F).]	H P	295-444-7	92045-62-0	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-386-00-8	Hydrocarbons, C ₄₋₁₁ , naphtha-cracking, arom.-free; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained from prehydrogenated cracked naphtha after distillative separation of benzene- and toluene-containing hydrocarbon cuts and a higher boiling fraction. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₄ through C ₁₁ and boiling in the range of approximately 30 °C to 205 °C (86 °F to 401 °F).]	H P	295-445-2	92045-63-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-387-00-3	Naphtha (petroleum), light heat-soaked, steam-cracked; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the fractionation of steam cracked naphtha after recovery from a heat soaking process. It consists predominantly of hydrocarbons having a carbon number predominantly in the range of C ₄ through C ₆ and boiling in the range of approximately 0 °C to 80 °C (32 °F to 176 °F).]	H P	296-028-8	92201-97-3	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-388-00-9	Distillates (petroleum), C ₆ -rich; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained from the distillation of a petroleum feedstock. It consists predominantly of hydrocarbons having carbon numbers of C ₅ through C ₇ , rich in C ₆ , and boiling in the range of approximately 60 °C to 70 °C (140 °F to 158 °F).]	H P	296-903-4	93165-19-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-389-00-4	Gasoline, pyrolysis, hydrogenated; Low boiling point naphtha-unspecified; [A distillation fraction from the hydrogenation of pyrolysis gasoline boiling in the range of approximately 20 °C to 200 °C (68 °F to 392 °F).]	H P	302-639-3	94114-03-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-390-00-X	Distillates (petroleum), steam-cracked, C ₈₋₁₂ fraction, polymd., distn. lights; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by distillation of the polymerized C ₈ through C ₁₂ fraction from steam-cracked petroleum distillates. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C ₈ through C ₁₂ .]	H P	305-750-5	95009-23-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-391-00-5	Extracts (petroleum) heavy naphtha solvent, clay-treated; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the treatment of heavy naphtholic solvent petroleum extract with bleaching earth. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₁₀ and boiling in the range of approximately 80 °C to 180 °C (175 °F to 356 °F).]	H P	308-261-5	97926-43-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-392-00-0	Naphtha (petroleum), light steam-cracked, debenzenized, thermally treated; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the treatment and distillation of debenzenized light steam-cracked petroleum naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₇ through C ₁₂ and boiling in the range of approximately 95 °C to 200 °C (203 °F to 392 °F).]	H P	308-713-1	98219-46-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-393-00-6	Naphtha (petroleum), light steam-cracked, thermally treated; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the treatment and distillation of light steam-cracked petroleum naphtha. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₆ and boiling in the range of approximately 35 °C to 80 °C (95 °F to 176 °F).]	H P	308-714-7	98219-47-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-394-00-1	Distillates (petroleum), C ₇₋₉ , C ₈ -rich, hydrodesulfurized dearomatized; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the distillation of petroleum light fraction, hydrodesulfurized and dearomatized. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₇ through C ₉ , predominantly C ₈ paraffins and cycloparaffins, boiling in the range of approximately 120 °C to 130 °C (248 °F to 266 °F).]	H P	309-862-5	101316-56-7	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-395-00-7	Hydrocarbons, C ₆₋₈ , hydrogenated sorption-dearomatized, toluene raffination; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained during the sorptions of toluene from a hydrocarbon fraction from cracked gasoline treated with hydrogen in the presence of a catalyst. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₆ through C ₈ and boiling in the range of approximately 80 °C to 135 °C (176 °F to 275 °F).]	H P	309-870-9	101316-66-9	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-396-00-2	Naphtha (petroleum), hydrodesulfurised full-range coker; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by fractionation from hydrodesulfurised coker distillate. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ to C ₁₁ and boiling in the range of approximately 23 °C to 196 °C (73 °F to 385 °F).]	H P	309-879-8	101316-76-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-397-00-8	Naphtha (petroleum), sweetened light; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by subjecting a petroleum naphtha to a sweetening process to convert mercaptans or to remove acidic impurities. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C ₅ through C ₈ and boiling in the range of approximately 20 °C to 130 °C (68 °F to 266 °F).]	H P	309-976-5	101795-01-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-398-00-3	Hydrocarbons, C ₃₋₆ , C ₅ -rich, steam-cracked naphtha; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by distillation of steam-cracked naphtha. It consists predominantly of hydrocarbons having carbon numbers in the range of C ₃ through C ₆ , predominantly C ₅ .]	H P	310-012-0	102110-14-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-399-00-9	Hydrocarbons, C ₅ -rich, dicyclopentadiene-contg.; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by distillation of the products from a steam-cracking process. It consists predominantly of hydrocarbons having carbon numbers of C ₅ and dicyclopentadiene and boiling in the range of approximately 30 °C to 170 °C (86 °F to 338 °F).]	H P	310-013-6	102110-15-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-400-00-2	Residues (petroleum), steam-cracked light, arom.; Low boiling point naphtha — unspecified; [A complex combination of hydrocarbons obtained by the distillation of the products of steam cracking or similar processes after taking off the very light products resulting in a residue starting with hydrocarbons having carbon numbers greater than C ₅ . It consists predominantly of aromatic hydrocarbons having carbon numbers greater than C ₅ and boiling above approximately 40 °C (104 °F).]	H P	310-057-6	102110-55-4	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-401-00-8	Hydrocarbons, C ₂₋₅ , C ₅₋₆ -rich; Low boiling point naphtha — unspecified	H P	270-690-8	68476-50-6	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4

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649-402-00-3	Hydrocarbons, C ₅ -rich; Low boiling point naphtha — unspecified	H P	270-695-5	68476-55-1	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4
649-403-00-9	Aromatic hydrocarbons, C ₈₋₁₀ ; Low boiling point naphtha — unspecified	H P	292-695-4	90989-39-2	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R65	T R: 45-46-65 S: 53-45	C ≥ 10 %: T; R45-46-65 0,1 % ≤ C < 10 %: T; R45-46	4'

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ANNEX 1G

Index No	Chemical name	Notes related to substances	EC No	CAS No	Classification	Labelling	Concentration Limits	Notes related to preparations
'005-007-00-2	boric acid; [1] boric acid, crude natural, containing not more than 85 per cent of H ₃ BO ₃ calculated on the dry weight [2]		233-139-2 [1] 234-343-4 [2]	10043-35-3 [1] 11113-50-1 [2]	Repr. Cat. 2; R60-61	T R: 60-61 S: 53-45	C ≥ 5,5 %; T; R60-61	
005-008-00-8	diboron trioxide; boric oxide		215-125-8	1303-86-2	Repr. Cat. 2; R60-61	T R: 60-61 S: 53-45	C ≥ 3,1 %; T; R60-61	
005-011-00-4	disodium tetraborate, anhydrous; boric acid, disodium salt; [1] tetraboron disodium heptaoxide, hydrate; [2] orthoboric acid, sodium salt [3]		215-540-4 [1] 235-541-3 [2] 237-560-2 [3]	1330-43-4 [1] 12267-73-1 [2] 13840-56-7 [3]	Repr. Cat. 2; R60-61	T R: 60-61 S: 53-45	C ≥ 4,5 %; T; R60-61	
005-011-01-1	disodium tetraborate decahydrate; borax decahydrate		215-540-4	1303-96-4	Repr. Cat. 2; R60-61	T R: 60-61 S: 53-45	C ≥ 8,5 %; T; R60-61	
005-011-02-9	disodium tetraborate pentahydrate; borax pentahydrate		215-540-4	12179-04-3	Repr. Cat. 2; R60-61	T R: 60-61 S: 53-45	C ≥ 6,5 %; T; R60-61	
005-015-00-6	1-chloromethyl-4-fluoro-1,4-diazoniabicyclo[2.2.2]octane bis(tetrafluoroborate)		414-380-4	140681-55-6	Xn; R22 Xi; R41 R43 R52-53	Xn R: 22-41-43-52/53 S: (2-)21-26-36/37/39-61		
005-016-00-1	tetrabutylammonium butyl tris-(4-trans-butylphenyl)borate		431-370-5	—	R53	R: 53 S: 61		
006-091-00-3	propineb (ISO); polymeric zinc propylenebis (dithiocarbamate)		—	9016-72-2	Xn; R20-48/20/22 R43 N; R50	Xn; N R: 20-43-48/20/22-50 S: (1/2-)24-37-46-61		

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006-092-00-9	<i>trans</i> -butyl (1 <i>S</i>)- <i>N</i> -[1-((2 <i>S</i>)-2-oxiranyl)-2-phenylethyl]carbamate		425-420-5	98737-29-2	N; R50-53	N R: 50/53 S: 60-61		
006-093-00-4	2,2'-dithio di(ethylammonium)-bis(dibenzyl)dithiocarbamate		427-180-7	—	Xn; R22 R43 N; R50-53	Xn; N R: 22-43-50/53 S: (2-)15-22-29-36/37-60-61		
006-094-00-X	O-isobutyl- <i>N</i> -ethoxy carbonylthiocarbamate	E	434-350-4	103122-66-3	R10 Carc. Cat. 2; R45 Muta. Cat. 2; R46 Xn; R22-48/22 R43 N; R51-53	T; N R: 45-46-10-22-43-48/ 22-51/53 S: 53-45-61		
006-095-00-5	fosetyl-aluminium (ISO); aluminium triethyl triphosphate		254-320-2	39148-24-8	Xi; R41	Xi R: 41 S: (2-)26-39-46		
006-096-00-0	chlorpropham (ISO); isopropyl 3-chlorocarbanilate		202-925-7	101-21-3	Carc. Cat. 3; R40 Xn; R48/22 N; R51-53	Xn; N R: 40-48/22-51/53 S: (2-)36/37-61		
007-028-00-2	hydroxylammonium nitrate		236-691-2	13465-08-2	E; R2 Carc. Cat. 3; R40 T; R24 Xn; R22-48/22 Xi; R36/38 R43 N; R50	E; T; N R: 2-22-24-36/38-40-43-48/22-50 S: (1/2-)26-36/37-45-61		
013-010-00-5	hydroxy aluminium bis(2,4,8,10-tetra- <i>trans</i> -butyl-6-hydroxy-12 <i>H</i> -dibenzo[<i>d</i> , <i>g</i>][1.3.2]dioxaphosphocin-6-oxide)		430-650-4	151841-65-5	N; R51-53	N R: 51/53 S: 61		
014-033-00-3	2-methyl-3-(trimethoxysilyl)propyl-2-propenoate hydrolysis product with silica		419-030-4	125804-20-8	F; R11 Xi; R36 R67	F; Xi R: 11-36-67 S: (2-)16-26		

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014-034-00-9	3-hexylheptamethyltrisiloxane		428-700-5	1873-90-1	Xn; R20 R53	Xn R: 20-53 S: (2-)61		
014-035-00-4	2-(3,4-epoxycyclohexyl)ethyl-triethoxy silane		425-050-4	10217-34-2	R43 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
015-113-00-0	tolclofos-methyl (ISO); O-(2,6-dichloro-p-tolyl)-O,O-dimethyl thiophosphate		260-515-3	57018-04-9	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-60-61		
015-182-00-7	tetraisopropyl-dichloromethylene-bisphosphonate		430-630-5	10596-22-2	Xn; R22 Xi; R36 R43	Xn R: 22-36-43 S: (2-)24-26-37		
015-183-00-2	(1-hydroxydodecylidene)diphosphonic acid		425-230-2	16610-63-2	C; R34 N; R50-53	C; N R: 34-50/53 S: (1/2-)26-36/37/39-45-60-61		
015-188-00-X	(1-methylethylidene)di-4,1-phenylenetetraphenyl diphosphate		425-220-8	5945-33-5	R53	R: 53 S: 61		
016-092-00-0	A mixture of: 4,7-bis(mercaptomethyl)-3,6,9-trithia-1,11-undecanedithiol-; 4,8-bis(mercaptomethyl)-3,6,9-trithia-1,11-undecanedithiol; 5,7-bis(mercaptomethyl)-3,6,9-trithia-1,11-undecanedithiol		427-050-1	—	Repr. Cat. 3; R62 Xi; R38 R43 N; R50-53	Xn; N R: 38-43-62-50/53 S: (2-)36/37-60-61		
017-023-00-7	[phosphinyldynetris(oxy)] tris[3-aminopropyl-2-hydroxy-N,N-dimethyl-N-(C ₆₋₁₈)-alkyl] trichlorides		425-520-9	197179-61-6	Xi; R41 N; R50-53	Xi; N R: 41-50/53 S: (2-)26-39-60-61		
024-021-00-X	potassium tetrasodium bis[(N,N'-n)-1'-(phenylcarbamoyl)-3,5-disulfonatobenzeneazo-1'-prop-1'-ene-2,2'-diolato]chromate(III)		425-830-4	—	Xi; R41	Xi R: 41 S: (2-)22-26-39		

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026-003-00-7	iron (II) sulfate		231-753-5	7720-78-7	Xn; R22 Xi; R36/38	Xn R: 22-36/38 S: (2-)46		
026-003-01-4	iron (II) sulfate (1:1) heptahydrate; sulfuric acid, iron(II) salt (1:1), heptahydrate; ferrous sulfate heptahydrate		231-753-5	7782-63-0	Xn; R22 Xi; R36/38	Xn R: 22-36/38 S: (2-)46	C ≥ 25 %: Xn; R22-36/38 20 % ≤ C < 25 %: Xi; R36	
026-004-00-2	potassium ferrite		430-010-4	12160-44-0	C; R34 R43	C R: 34-43 S: (1/2-)22-26-36/37/39-40-45		
027-006-00-6	cobalt acetate		200-755-8	71-48-7	Carc. Cat. 2; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R60 R42/43 N; R50-53	T; N R: 49-60-42/43-68-50/53 S: 53-45-60-61	C ≥ 2,5 %: T, N; R49-60-42/43-68-50/53 1 % ≤ C < 2,5 %: T, N; R49-60-42/43-68-51/53 0,5 % ≤ C < 1 %: T, N; R49-60-51/53 0,25 % ≤ C < 0,5 %: T, N; R49-51/53 0,025 % ≤ C < 0,25 %: T; R49-52/53 0,01 % ≤ C < 0,025 %: T; R49	1
027-007-00-1	zinc hexacyanocobaltate(III), tertiary butyl alcohol/polypropylene glycol complex		425-240-7	—	Xi; R41 N; R51-53	Xi; N R: 41-51/53 S: (2-)22-26-39-61		
027-008-00-7	complex of cobalt(III)-bis(N-phenyl-4-(5-ethylsulfonyl-2-hydroxyphenylazo)-3-hydroxynaphthylamide), hydrated (n H ₂ O, 2<n<3)		427-390-9	—	R43	Xi R: 43 S: (2-)24-37		

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027-009-00-2	cobalt nitrate		233-402-1	10141-05-6	Carc. Cat. 2; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R60 R42/43 N; R50-53	T; N R: 49-60-42/43-68-50/53 S: 53-45-60-61	C ≥ 2,5 %: T, N; R49-60-42/43-68-50/53 1 % ≤ C < 2,5 %: T, N; R49-60-42/43-68-51/53 0,5 % ≤ C < 1 %: T, N; R49-60-51/53 0,25 % ≤ C < 0,5 %: T, N; R49-51/53 0,025 % ≤ C < 0,25 %: T; R49-52/53 0,01 % ≤ C < 0,025 %: T; R49	1
027-010-00-8	cobalt carbonate		208-169-4	513-79-1	Carc. Cat. 2; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R60 R42/43 N; R50-53	T; N R: 49-60-42/43-68-50/53 S: 53-45-60-61	C ≥ 2,5 %: T, N; R49-60-42/43-68-50/53 1 % ≤ C < 2,5 %: T, N; R49-60-42/43-68-51/53 0,5 % ≤ C < 1 %: T, N; R49-60-51/53 0,25 % ≤ C < 0,5 %: T, N; R49-51/53 0,025 % ≤ C < 0,25 %: T; R49-52/53 0,01 % ≤ C < 0,025 %: T; R49	1
028-011-00-6	nickel dichloride	E	231-743-0	7718-54-9	Carc. Cat. 1; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R61 T; R23/25-48/23 Xi; R38 R42/43 N; R50-53	T; N R: 49-61-23/25-38-42/ 43-48/23-68-50/53 S: 53-45-60-61	C ≥ 25 %: T, N; R49-61-23/25-38-42/43-48/23-68-50/53 20 % ≤ C < 25 %: T, N; R49-61-20/22-38-42/43-48/23-68-51/53 3 % ≤ C < 20 %: T, N; R49-61-20/22-42/43-48/23-68-51/53 2,5 % ≤ C < 3 %: T, N; R49-61-42/43-48/23-68-51/53 1 % ≤ C < 2,5 %: T; R49-61-42/43-48/23-68-52/53 0,5 % ≤ C < 1 %: T; R49-61-43-48/20-52/53 0,25 % ≤ C < 0,5 %: T; R49-43-48/20-52/53 0,1 % ≤ C < 0,25 %: T; R49-43-48/20 0,01 % ≤ C < 0,1 %: Xi; R43	

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028-012-00-1	nickel dinitrate; [1] nitric acid, nickel salt [2]	E	236-068-5 [1] 238-076-4 [2]	13138-45-9 [1] 14216-75-2 [2]	O; R8 Carc. Cat. 1; R49 Muta. Cat. 3; R68 Repr. Cat. 2; R61 T; R48/23 Xn; R20/22 Xi; R38-41 R42/43 N; R50-53	O; T; N R: 49-61-8-20/22-38-41-42/43-48/23-68-50/53 S: 53-45-60-61	C ≥ 25 %: T, N; R49-61-20/22-38-41-42/43-48/23-68-50/53 20 % ≤ C < 25 %: T, N; R49-61-38-41-42/43-48/23-68-51/53 10 % ≤ C < 20 %: T, N; R49-61-41-42/43-48/23-68-51/53 5 % ≤ C < 10 %: T, N; R49-61-36-42/43-48/23-68-51/53 2,5 % ≤ C < 5 %: T, N; R49-61-42/43-48/23-68-51/53 1 % ≤ C < 2,5 %: T; R49-61-42/43-48/23-68-52/53 0,5 % ≤ C < 1 %: T; R49-61-43-48/20-52/53 0,25 % ≤ C < 0,5 %: T; R49-43-48/20-52/53 0,1 % ≤ C < 0,25 %: T; R49-43-48/20 0,01 % ≤ C < 0,1 %: Xi; R43	
030-009-00-5	zinc-bis(4-(<i>n</i> -octyloxycarbonylamino)salicylate) dihydrate		417-130-2	—	Xi; R41 N; R51-53	Xi; N R: 41-51/53 S: (2-)26-39-61		
030-010-00-0	2-dodec-1-enylbutanedioic acid, 4-methyl ester zinc salt		430-740-3	—	N; R51-53	N R: 51/53 S: 61		
040-003-00-4	Reaction product of 3,5-di- <i>trans</i> -butylsalicylic acid and zirconium oxychloride, dehydrated, basic Zr: DTBS = 1.0: 1.0 to 1.0: 1.5		430-610-6	226996-19-6	N; R50-53	N R: 50/53 S: 60-61		
046-001-00-X	tetraammine palladium (II) hydrogen carbonate		425-270-0	134620-00-1	Xn; R22-48/22 Xi; R41 R43 N; R50-53	Xn; N R: 22-41-43-48/22-50/53 S: (2-)22-26-36/37/39-60-61		
047-002-00-8	polyphosphoric acid, copper, sodium, magnesium, calcium, silver and zinc salt		416-850-4	—	N; R50-53	N R: 50/53 S: 60-61		

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050-021-00-4	dichlorodioctyl stannane		222-583-2	3542-36-7	T; R23-48/25 R53	T R: 23-48/25-53 S: (1/2-)38-45-61		
050-022-00-X	dibutyltin dichloride; (DBTC)	E	211-670-0	683-18-1	Mut. Cat. 3; R68 Repr. Cat. 2; R60-61 T+; R26 T; R25-48/25 C; R34 Xn; R21 N; R50-53	T+; C; N R: 60-61-21-25-26-34-48/25-68-50/53 S: 53-45-60-61	C ≥ 25 %: T+, C, N; R60-61-21-25-26-34-48/25-68-50/53 10 % ≤ C < 25 %: T+, C, N; R60-61-22-26-34-48/25-68-50/53 7 % ≤ C < 10 %: T+, N; R60-61-22-26-36/38-48/22-68-50/53 3 % ≤ C < 7 %: T, N; R60-61-22-23-36/38-48/22-68-50/53 2,5 % ≤ C < 3 %: T, N; R60-61-23-36/38-48/22-68-50/53 1 % ≤ C < 2,5 %: T, N; R60-61-23-36/38-48/22-68-51/53 0,5 % ≤ C < 1 %: T, N; R60-61-20-36/38-51/53 0,25 % ≤ C < 0,5 %: Xn, N; R20-36/38-51/53 0,1 % ≤ C < 0,25 %: Xn; R20-36/38-52/53 0,025 % ≤ C < 0,1 %: Xi; R36/38-52/53 0,01 % ≤ C < 0,025 %: Xi; R36/38-52/53	
078-010-00-X	tetraammine platinum (II) hydrogen carbonate		426-730-3	123439-82-7	Xn; R22 Xi; R41 R52-53	Xn R: 22-41-52/53 S: (2-)22-26-39-61		
601-070-00-0	A mixture of: branched icosane; branched docosane; branched tetracosane		417-050-8	151006-58-5	Xn; R20 R53	Xn R: 20-53 S: (2-)61		
601-072-00-1	A mixture of: 1-(4-isopropylphenyl)-1-phenylethane; 1-(3-isopropylphenyl)-1-phenylethane; 1-(2-isopropylphenyl)-1-phenylethane		430-690-2	52783-21-8	Xi; R38 N; R50-53	Xi; N R: 38-50/53 S: (2-)37-60-61		

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601-075-00-8	4,4'-bis(N-carbamoyl-4-methylbenzenesulfonamide)diphenylmethane		418-770-5	151882-81-4	Carc. Cat. 3; R40	Xn R: 40 S: (2-)22-36/37		
601-076-00-3	ethynyl cyclopropane		425-430-1	6746-94-7	F; R11 R4 Xi; R38-41 R52-53	F; Xi R: 4-11-38-41-52/53 S: (2-)9-16-26-33-37/39-61		
601-077-00-9	A mixture of: 1-heptyl-4-ethyl-2,6,7-trioxabicyclo[2.2.2]octane; 1-nonyl-4-ethyl-2,6,7-trioxabicyclo[2.2.2]octane		426-510-7	196965-91-0	N; R50-53	N R: 50/53 S: 60-61		
601-078-00-4	A mixture of: 1,7-dimethyl-2-[(3-methylbicyclo[2.2.1]hept-2-yl)methyl]bicyclo[2.2.1]heptane; 2,3-dimethyl-2-[(3-methylbicyclo[2.2.1]hept-2-yl)methyl]bicyclo[2.2.1]heptane		427-040-5	—	C; R34 N; R50-53	C; N R: 34-50/53 S: (1/2-)23-26-36/37/39-45-57-60-61		
601-079-00-X	A mixture of: <i>trans-trans</i> -cyclohexadeca-1,9-diene; <i>cis-trans</i> -cyclohexadeca-1,9-diene		429-620-3	—	Xi; R38 R43 R53	Xi R: 38-43-53 S: (2-)24-37-61		
602-095-00-X	alkanes, C ₁₄₋₁₇ , chloro; chlorinated paraffins, C ₁₄₋₁₇		287-477-0	85535-85-9	R64 R66 N; R50-53	N R: 64-66-50/53 S: (2-)24-60-61		
602-098-00-6	2-(3-bromophenoxy)tetrahydro-2H-pyran		429-030-6	57999-49-2	R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
602-099-00-1	3-(4-fluorophenyl)-2-methylpropionylchloride		426-370-7	—	R14 R29 C; R35 Xn; R22 R52-53	C R: 14-22-29-35-52/53 S: (1/2-)26-36/37/39-45-61		

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602-100-00-5	A mixture of: (R,R)-1,1,1,2,2,3,4,5,5,5-decafluoropentane; (S,S)-1,1,1,2,2,3,4,5,5,5-decafluoropentane		420-640-8	—	R52-53	R: 52/53 S: 61		
602-101-00-0	2-chloro-4-fluoro-5-nitrophenyl (isobutyl)carbonate		427-020-6	141772-37-4	Xn; R48/22 R43 N; R50-53	Xn; N R: 43-48/22-50/53 S: (2-)36/37-60-61		
602-102-00-6	1,1,1,3,3-pentafluorobutane		430-250-1	406-58-6	F; R11	F R: 11 S: (2-)3-9-16-41		
602-103-00-1	1-(chlorophenylmethyl)-2-methylbenzene		431-450-1	41870-52-4	Xi; R38 N; R50-53	Xi; N R: 38-50/53 S: (2-)36/37-60-61		
602-104-00-7	1,1,2,2,3,3,4-heptafluorocyclopentane		430-710-1	15290-77-4	R52-53	R: 52/53 S: 61		
603-109-00-7	A mixture of: 1-ethoxy-1,1,2,3,3,3-hexafluoro-2-(trifluoromethyl)propane; 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane		425-340-0	—	R53	R: 53 S: 21-23-61		
603-110-00-2	A mixture of: <i>cis</i> -2-isobutyl-5-methyl 1,3-dioxane; <i>trans</i> -2-isobutyl-5-methyl 1,3-dioxane		426-130-1	166301-21-9	Xi; R38 R52-53	Xi R: 38-52/53 S: (2-)23-37-61		
603-111-00-8	A mixture of: 1-(1,1-dimethylpropyl)-4-ethoxy- <i>cis</i> -cyclohexane; 1-(1,1-dimethylpropyl)-4-ethoxy- <i>trans</i> -cyclohexane		426-530-6	—	Xi; R38 N; R50-53	Xi; N R: 38-50/53 S: (2-)24-37-60-61		
603-112-00-3	cyclopentyl 2-phenylethyl ether		428-340-9	—	Xi; R38 N; R50-53	Xi; N R: 38-50/53 S: (2-)37-60-61		

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603-113-00-9	6-glycidioxy-naphth-1-yl oxy-methyloxirane		429-960-2	27610-48-6	Muta. Cat. 3; R68 Xn; R21 Xi; R38 R43 R52-53	Xn R: 21-38-43-68-52/53 S: (2-)36/37/39-61		
603-114-00-4	9-(2-propenyloxy)tricyclo[5.2.1.0(2,6)]dec-3(or-4)-ene		430-830-2	26912-64-1	Xi; R38 N; R51-53	Xi; N R: 38-51/53 S: (2-)23-37-61		
603-115-00-X	A mixture of: O,O',O''-(methylsilylanetriyl)tris(4-methyl-2-pentanone oxime) (3 stereoisomers)		423-580-0	—	Xn; R48/22 R53	Xn R: 48/22-53 S: 2-36-61		
603-116-00-5	(Z)-(2,4-difluorophenyl)piperidin-4-ylmethanone oxime monohydrochloride		424-740-2	138271-16-6	Xn; R22 Xi; R41 R52-53	Xn R: 22-41-52/53 S: (2-)22-26-39-61		
603-182-00-5	Reaction mixture of: saturated, monounsaturated and multiple unsaturated long-chained partly esterified alcohols of vegetable origin (<i>Brassica napus</i> L., <i>Brassica rapa</i> L., <i>Helianthus annuus</i> L., <i>Glycine hispida</i> , <i>Gossypium hirsutum</i> L., <i>Cocos nucifera</i> L., <i>Elaeis guineensis</i>) with O,O-diisobutyl-dithiophosphate and 2-ethylhexylamine and hydrogen peroxide		428-630-5	—	R43	Xi R: 43 S: (2-)24-37		
603-188-00-8	A mixture of: 6,7-epoxy-1,2,3,4,5,6,7,8-octahydro-1,1,2,4,4,7-hexamethylnaphthalene; 7,8-epoxy-1,2,3,4,6,7,8,8a-octahydro-1,1,2,4,4,7-hexamethylnaphthalene		426-970-9	—	N; R50-53	N R: 50/53 S: 60-61		
603-190-00-9	8,8-dimethyl-7-isopropyl-6,10-dioxaspiro[4.5]decane		424-030-2	62406-73-9	Xi; R38 R52-53	Xi R: 38-52/53 S: (2-)24-37-61		

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603-192-00-X	(E,E)-3,7,11-trimethyldodeca-1,4,6,10-tetraen-3-ol		423-240-1	125474-34-2	Xi; R38-41 R43 N; R50-53	Xi; N R: 38-41-43-50/53 S: (2-)23-24-26-37/39-60-61		
603-193-00-5	disodium 9,10-anthracenedioxide		426-030-8	46492-07-3	C; R35	C R: 35 S: (1/2-)26-36/37/39-45		
603-194-00-0	2-(2-aminoethylamino)ethanol (AEEA)		203-867-5	111-41-1	Repr. Cat. 2; R61 Repr. Cat. 3; R62 C; R34 R43	T R: 61-34-43-62 S: 53-45	C ≥ 25 %: T; R61-34-43-62 10 % ≤ C < 25 %: T; R61-34-43-62 5 % ≤ C < 10 %: T; R61-36/37/38-43-62 1 % ≤ C < 5 %: T; R61-43 0,5 % ≤ C < 1 %: T; R61	
603-200-00-1	1-pentanol; [1] 3-pentanol [2]		200-752-1 [1] 209-526-7 [2]	71-41-0 [1] 584-02-1 [2]	R10 Xn; R20 Xi; R37/38	Xn R: 10-20-37/38 S: (1/2-)36/37-46		
603-201-00-7	(E)-(7R,11R)-3,7,11,15-tetramethylhexadec-2-ene-1-ol		416-120-5	—	Xi; R38 R53	Xi R: 38-53 S: (2-)37-61		
603-202-00-2	4,4,5,5,5-pentafluoropentan-1-ol		421-360-9	148043-73-6	Xn; R22 R52-53	Xn R: 22-52/53 S: (2-)23-61		
603-203-00-8	(1R,3S,7R,8R,10R,13R)-5,5,7,9,9,13-hexamethyl-4,6-dioxatetracyclo[6.5.1.0 ^{1,10} .0 ^{3,7}]tetradecane		427-580-1	—	Xi; R38	Xi R: 38 S: (2-)37		

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603-204-00-3	A mixture of: 2,2'-(heptane-1,7-diyl)bis-1,3-dioxolane; 2,2'-(heptane-1,6-diyl)bis-1,3-dioxolane		428-110-8	—	R52-53	R: 52/53 S: 61		
603-205-00-9	(1S-cis)-4-(2-amino-6-chloro-9H-purin-9-yl)-2-cyclopentene-1-methanol hydrochloride		426-200-1	172015-79-1	T; R48/25 Xn; R22 Xi; R41 R43 R52-53	T R: 22-41-43-48/25-52/53 S: (1/2-)22-26-36/37/39-45-61		
603-206-00-4	2,2-dichloro-1,3-benzodioxol		426-850-6	2032-75-9	R10 R14 C; R35 Xn; R22 R43	C R: 10-14-22-35-43 S: (1/2-)7/8-23-26-36/37/39-45		
603-207-00-X	2-isobutyl-2-isopropyl-1,3-dimethoxypropane		430-800-9	129228-21-3	Xi; R38 N; R51-53	Xi; N R: 38-51/53 S: (2-)23-37-61		
603-208-00-5	1,2-diethoxyethane		211-076-1	629-14-1	F; R11 R19 Repr. Cat. 2; R61 Repr. Cat. 3; R62 Xi; R36	F; T R: 61-11-19-36-62 S: 53-45		
603-209-00-0	spinosad (ISO) (a mixture of spinosyn A and spinosyn D in ratios between 95:5 to 50:50);		— [1] — [2] — [3]	— [1] 131929-60-7 [2] 131929-63-0 [3]	N; R50-53	N R: 50/53 S: 60-61	C ≥ 2,5 %: N; R50/53 0,25 % ≤ C < 2,5 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53	

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	mixture of 50-95 % of (2R,3aS,5aR,5bS,9S,13S,14-R,16aS,16bR)-2-(6-deoxy-2,3,4-tri-O-methyl- α -L-mannopyranosyloxy)-13-(4-dimethylamino-2,3,4,6-tetra-deoxy- β -D-erythro-pyranosyloxy)-9-ethyl-2,3,3a,5a,5-b,6,7,9,10,11,12,13,14,15,16-a,16b-hexadecahydro-14-methyl-1H-8-oxacyclododeca[b]as-indacene-7,15-dione and 50-5 % (2S,3aR,5aS,5bS,9S,13S,14R,16aS,16bS)-2-(6-deoxy-2,3,4-tri-O-methyl- α -L-mannopyranosyloxy)-13-(4-dimethylamino-2,3,4,6-tetra-deoxy- β -D-erythro-pyranosyloxy)-9-ethyl-2,3,3a,5a,5-b,6,7,9,10,11,12,13,14,15,16-a,16b-hexadecahydro-4,14-dimethyl-1H-8-oxacyclododeca[b]as-indacene-7,15-dione; [1] spinosyn A; [2] spinosyn D [3]							
603-210-00-6	2,4-diethyl-1,5-pentanediol		429-310-8	57987-55-0	Xi; R41	Xi R: 41 S: (2-)26-39		
604-071-00-4	4,4'-(1-{4-[1-(4-hydroxyphenyl)-1-methylethyl]phenyl}ethylidene)diphenol		425-600-3	110726-28-8	R53	R: 53 S: 61		
604-072-00-X	1,2-bis(phenoxyethyl)benzene		428-620-0	10403-74-4	N; R50-53	N R: 50/53 S: 22-60-61		

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604-073-00-5	(E)-3-[1-[4-[2-(dimethylamino)ethoxy]phenyl]-2-phenylbut-1-enyl]phenol		428-010-4	82413-20-5	Carc. Cat. 3; R40 Repr. Cat. 2; R60 R43 N; R50-53	T; N R: 60-40-43-50/53 S: 53-45-60-61		
605-023-00-5	5-chloro-2-(4-chlorophenoxy)phenol		429-290-0	3380-30-1	Xi; R41 N; R50-53	Xi; N R: 41-50/53 S: (2-)26-39-60-61		
605-024-00-0	2-bromo-5-hydroxy-4-methoxybenzaldehyde		426-540-0	2973-59-3	R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
605-032-00-4	3-[3-(4-fluorophenyl)-1-(1-methylethyl)-1H-indol-2-yl]-(E)-2-propenal		425-370-4	93957-50-7	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)22-24-37-60-61		
605-033-00-X	A mixture of: 3,7,11-trimethyl- <i>cis</i> -6,10-dodecadienal; 3,7,11-trimethyl- <i>trans</i> -6,10-dodecadienal		425-910-9	32480-08-3	Xi; R38 N; R50-53	Xi; N R: 38-50/53 S: (2-)37-60-61		
605-034-00-5	A mixture of: (1RS,2RS,3SR,6RS,9SR)-9-methoxytricyclo[5.2.1.0(2,6)]decane-3-carbaldehyde; (1RS,2RS,3RS,6RS,8SR)-8-methoxytricyclo[5.2.1.0(2,6)]decane-3-carbaldehyde; (1RS,2RS,4SR,6RS,8SR)-8-methoxytricyclo[5.2.1.0(2,6)]decane-4-carbaldehyde		429-860-9	—	R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
605-035-00-0	(E)-3-(4-(4-fluorophenyl)-5-methoxymethyl-2,6-bis(1-methoxymethyl)pyridin-3-yl)prop-2-enal		426-330-9	177964-68-0	Xi; R36 R43 R53	Xi R: 36-43-53 S: (2-)24-26-37-61		
605-036-00-6	2-bromomalonaldehyde		430-470-6	2065-75-0	Xn; R22 Xi; R41	Xn R: 22-41 S: (2-)26-39		

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606-074-00-6	A mixture of: (1R*,2S*)-2-acetyl-1,2,3,4,5,6,7,8-octahydro-1,2,8,8-tetramethylnaphthalene; (2R*,3S*)-2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene		425-570-1	—	N; R50-53	N R: 50/53 S: 60-61		
606-090-00-3	1-[3-[(dimethylamino)methyl]-4-hydroxyphenyl]ethanone		430-920-1	73096-98-7	Xn; R22 Xi; R41 R52-53	Xn R: 22-41-52/53 S: (2-)22-26-39-61		
606-093-00-X	5-ethyl-2,4-dihydro-4-(2-phenoxyethyl)-3H-1,2,4-triazol-3-one		414-470-3	95885-13-5	Xn; R22 R52-53	Xn R: 22-52/53 S: (2-)22-36-61		
606-094-00-5	N-[ethyl(3-methylbutyl)amino]-3-methyl-1-phenyl-spiro[[1]benzo-pyrano[2,3-c]pyrazole-4(1H),1'(3'H)-isobenzofuran]-3'-one		417-460-7	—	R53	R: 53 S: 61		
606-095-00-0	(R,S)-2-azabicyclo[2.2.1]hept-5-en-3-one		421-830-3	49805-30-3	Xn; R22 R43	Xn R: 22-43 S: (2-)22-24-37		
606-096-00-6	3-(6-O-(6-desoxy- α -L-mannopyranosyl)-O-(α -D-glucopyranosyl)-(β -D-glucopyranosyl)oxy)-2-(3,4-dihydroxyphenyl)-5,7-dihydroxy-4H-1-benzopyran-4-one		424-170-4	130603-71-3	R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
606-097-00-1	2,2"-dihydroxy-4,4"-(2-hydroxypropane-1,3-diylidioxy)dibenzophenone		424-210-0	23911-85-5	R53	R: 53 S: 61		
606-098-00-7	1-benzyl-5-(hexadecyloxy)-2,4-imidazolidinedione		431-220-9	158574-65-3	R53	R: 53 S: 61		
606-099-00-2	5-methoxy-4'-(trifluoromethyl)valerophenone		425-000-1	61718-80-7	N; R51-53	N R: 51/53 S: 61		

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606-100-00-6	2-butyryl-3-hydroxy-5-thiocyclohexan-3-yl-cyclohex-2-en-1-one	E	425-150-8	94723-86-1	Repr.Cat.2; R60 Xn; R22 R43 R52-53	T R: 60-22-43-52/53 S: 53-45-61		
606-101-00-1	A mixture of: 1,5-bis[(2-ethylhexyl)amino]-9,10-anthracenedione; 1-[(2-ethylhexyl)amino]-5-[3-[(2-ethylhexyl)oxy]propyl]amino-9,10-anthracenedione; 1,5-bis[3-[(2-ethylhexyl)oxy]propyl]amino-9,10-anthracenedione; 1-[(2-ethylhexyl)amino]-5-[(3-methoxypropyl)amino]-9,10-anthracene dione; 1-[3-[(2-ethylhexyl)oxy]propyl]amino-5-[(3-methoxypropyl)amino]-9,10-anthracenedione; 1,5-bis[(3-methoxypropyl)amino]-9,10-anthracenedione		426-050-7	165038-51-7	N; R50-53	N R: 50/53 S: 60-61		
606-102-00-7	4-(3-triethoxysilylpropoxy)-2-hydroxybenzophenone		431-490-8	79876-59-8	N; R51-53	N R: 51/53 S: 61		
606-103-00-2	1-(4-(trans-4-ethylcyclohexyl)phenyl)ethanone		426-460-6	—	R43	Xi R: 43 S: (2-)24-37		
606-104-00-8	1-(4-(trans-4-pentylcyclohexyl)phenyl)ethanone		426-830-7	78531-59-6	R43 R53	Xi R: 43-53 S: (2-)24-37-61		
606-105-00-3	3,4,3',4'-tetraphenyl-1,1'-ethandiylbispyrol-2,5-dione		431-500-0	226065-73-2	R43 R53	Xi R: 43-53 S: (2-)22-24-37-61		
606-106-00-9	1-(4-(trans-4-butylcyclohexyl)phenyl)ethanone		427-320-7	83626-30-6	R43 R53	Xi R: 43-53 S: (2-)24-37-61		

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606-107-00-4	8-azaspiro[4.5]decane-7,9-dione		427-770-4	1075-89-4	T; R25 N; R51-53	T; N R: 25-51/53 S: (1/2-)22-36-45-61		
606-108-00-X	1,1,1,2,2,4,5,5,5-nonafluoro-4-(trifluoromethyl)- 3-pentanone		436-710-6	756-13-8	R52-53	R: 52/53 S: 61		
606-109-00-5	2-(4-methyl-3-pentenyl)anthraquinone		428-320-1	71308-16-2	Xn; R22 R43 R53	Xn R: 22-43-53 S: (2-)22-24-37-61		
606-110-00-0	5-ethoxy-5H-furan-2-one		428-330-4	2833-30-9	C; R34 Xn; R21/22-48/22 R43	C R: 21/22-34-43-48/22 S: (1/2-)23-26-36/37/39-45		
606-111-00-6	5-amino-6-methyl-1,3-dihydrobenzoimidazol-2-one		428-410-9	67014-36-2	Xn; R22 R43 N; R51-53	Xn; N R: 22-43-51/53 S: (2-)24-37-61		
606-112-00-1	(4aR*,8aR*)-4a,5,9,10,11,12-hexahydro-3-methoxy-11-methyl-6H-benzofuro[3a,3,2-ef][2]benzazepin-6-one		428-690-2	1668-86-6	Xn; R22 Xi; R36 R52-53	Xn R: 22-36-52/53 S: (2-)22-26-61		
606-113-00-7	1-[4-(4-benzoylphenylsulfanyl)phenyl]-2-methyl-2-(4-methylphenylsulfonyl)propan-1-one		429-040-0	272460-97-6	Xi; R41 R53	Xi R: 41-53 S: (2-)26-39-61		
606-114-00-2	4,4',5,5',6,6',7,7'-octachloro-(2,2')biisindolyl-1,1',3,3'-tetraone		429-150-9	67887-47-2	R53	R: 53 S: 61		
606-115-00-8	prooxydim (ISO); 2-((EZ)-1-[(2RS)-2-(4-chlorophenoxy)propoxyimino]butyl)-3-hydroxy-5-(thian-3-yl)cyclohex-2-en-1-one		—	139001-49-3	Carc. Cat. 3; R40 Repr. Cat. 3; R63 R43	Xn R: 40-43-63 S: (2-)36/37-46		

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606-116-00-3	tepraloxym (ISO); (RS)-(EZ)-2-[1-[(2E)-3-chloroallyloxyimino]propyl]-3-hydroxy-5-perhydropyran-4-ylcyclohex-2-en-1-one		—	149979-41-9	Carc. Cat. 3; R40 Repr. Cat. 3; R62-63	Xn R: 40-62-63 S: (2-)36/37-46		
606-117-00-9	2,6-bis(1,1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one		429-460-4	7078-98-0	R43 R53	Xi R: 43-53 S: (2-)24-37-61		
606-118-00-4	N-(1,3-dimethylbutyl)-N'-(phenyl)-1,4-benzoquinonediiimine		429-640-2	52870-46-9	Xi; R36 N; R50-53	Xi; N R: 36-50/53 S: (2-)26-60-61		
606-119-00-X	(E)-3-methyl-5-cyclopentadecen-1-one		429-900-5	—	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-60-61		
606-120-00-5	2,5-dihydroxy-5-methyl-3-(morpholin-4-yl)-2-cyclopenten-1-one		430-170-5	114625-74-0	Xn; R22 R52-53	Xn R: 22-52/53 S: (2-)46-61		
606-121-00-0	(+)-(1S,2S,3S,5R)-2,6,6-trimethylbicyclo[3.1.1]heptane-3-spiro-1'-(cyclohex-2'-en-4'-one)		430-460-1	133636-82-5	C; R34 R43 N; R50-53	C; N R: 34-43-50/53 S: (1/2-)26-36/37/39-45-57-60-61		
606-122-00-6	3-(2-bromopropionoyl)-4,4-dimethyl-1,3-oxazolan-2-one		430-820-8	114341-88-7	Xn; R22-48/22 Xi; R38-41 R43 N; R50-53	Xn; N R: 22-38-41-43-48/22-50/53 S: (2-)26-36/37/39-60-61		
606-123-00-1	4-hexadecyl-1-phenylpyrazolidin-3-one		430-840-7	—	R43 R53	Xi R: 43-53 S: (2-)24-37-61		
607-417-00-2	3-chloropropyl chloroformiate		425-770-9	628-11-5	T; R23 Xn; R22-48/22 Xi; R38-41 R43	T R: 22-23-38-41-43-48/22 S: (1/2-)26-36/37/39-45		

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607-428-00-2	tetrasodium ethylene diamine tetraacetate		200-573-9	64-02-8	Xn; R22 Xi; R41	Xn R: 22-41 S: (2-)26-39-46		
607-429-00-8	edetate acid (EDTA)		200-449-4	60-00-4	Xi; R36	Xi R: 36 S: (2-)26		
607-471-00-7	1,6-bis((dibenzylthiocarbamoyl) disulfanyl)hexane		429-280-6	151900-44-6	R53	R: 53 S: 61		
607-473-00-8	pentaerythritol, dipentaerythritol, fatty acids, C ₆₋₁₀ , mixed esters with adipic acid, heptanoic acid and isostearic acid		426-590-3	187412-41-5	R43	Xi R: 43 S: (2-)24-37		
607-477-00-X	(1 α 5 α 6 α)-6-nitro-3-benzyl-3-azabicyclo[3,1,0]hexane methane-sulfonate salt		426-740-8	—	Xn; R22 Xi; R41 N; R51-53	Xn; N R: 22-41-51/53 S: (2-)22-26-39-61		
607-481-00-1	A mixture of: trihexyl citrate; dihexyloctyl citrate; dioctylhexyl citrate; dihexyldecyl citrate		430-290-8	—	R53	R: 53 S: 61		
607-482-00-7	N-[1-(S)-ethoxycarbonyl-3-phenylpropyl]-L-alanyl-N-carboxyanhydride		430-360-8	84793-24-8	Xi; R41 R43	Xi R: 41-43 S: (2-)22-24-26-37/39		
607-483-00-2	1,2-benzenedicarboxylic acid; di-C ₆₋₈ -branched alkylesters, C ₇ -rich		276-158-1	71888-89-6	Repr. Cat. 2; R61	T R: 61 S: 53-45		
607-484-00-8	ethyl 2-[[3-acetylamino-4-(6-bromo-2-methyl-1,3-dioxo-2,3-dihydro-1H-isoindol-5-ylazo)phenyl]ethylamino]propionate		430-480-0	221452-67-1	R53	R: 53 S: 61		
607-485-00-3	(3S—trans)-phenyl-3-[(1,3-benzodioxol-5-yloxy)methyl]-4-(4-fluorophenyl)-1-piperidinecarboxylate		430-510-2	—	R53	R: 53 S: 22-61		

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607-486-00-9	potassium sodium 5'-(6-chloro-4-(2-(2-vinylsulfonylethoxy)ethylamino)-1,3,5-triazin-2-ylamino)-4'-hydroxy-2,3'-azodinaphthalene-1,2',5,7'-disulfonate		402-110-8	110081-40-8	R52-53	R: 52/53 S: 22-61		
607-491-00-6	A mixture of: diester of 4,4'-methylenebis[2-(2-hydroxy-5-methylbenzyl)-3,6-dimethylphenol] and 6-diazo-5,6-dihydro-5-oxonaphthalene-1-sulfonic acid (1:2); triester of 4,4'-methylenebis[2-(2-hydroxy-5-methylbenzyl)-3,6-dimethylphenol] and 6-diazo-5,6-dihydro-5-oxonaphthalene-1-sulfonic acid (1:3)		427-140-9	—	Carc. Cat. 3; R40	Xn R: 40 S: (2-)36/37		
607-504-00-5	diammonium 1-hydroxy-2-(4-(4-carboxyphenylazo)-2,5-dimethoxyphenylazo)-7-amino-3-naphthalenesulfonate		422-670-7	—	Repr. Cat. 3; R62 T; R25 Xn; R48/22 N; R50-53	T; N R: 25-48/22-62-50/53 S: (1/2-)36/37-45-60-61		
607-509-00-2	2-phenoxyethyl 4-aminobenzoate		430-880-5	88938-23-2	N; R51-53	N R: 51/53 S: 61		
607-510-00-8	(2S,5R)-6,6-dibromo-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid 4,4-dioxide		427-200-4	76646-91-8	Xn; R22 Xi; R38-41 R43	Xn R: 22-38-41-43 S: (2-)24-26-37/39		
607-511-00-3	A mixture of: 4-[(3-decyloxypropyl)(3-isobutoxy-1-isobutoxycarbonyl-3-oxopropyl)amino]-4-oxobutyric acid; 4-[(3-isobutoxy-1-isobutoxycarbonyl-3-oxopropyl)(3-octyloxypropyl)amino]-4-oxobutyric acid		423-750-4	—	Xi; R36 N; R51-53	Xi; N R: 36-51/53 S: (2-)26-61		

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607-514-00-X	potassium N-(1-methoxy-1-oxo-but-2-en-3-yl)valinate		427-240-2	134841-35-3	R43	Xi R: 43 S: (2-)24-37		
607-518-00-1	3-oxoandrost-4-ene-17- β -carboxylic acid		414-990-0	302-97-6	Repr. Cat. 3; R62 R53	Xn R: 62-53 S: (2-)36/37-61		
607-519-00-7	poly-[[[(4-ethyl-ethylene amino)phenyl]-[(4-(ethyl-(2-oxyethylene)amino)phenyl)methinyl]cyclohexa-2,5-dienylidene)-N-ethyl-N-(2-hydroxyethyl)ammonium acetate]		427-280-0	176429-27-9	Xi; R37/38-41 N; R50-53	Xi; N R: 37/38-41-50/53 S: (2-)26-37/39-60-61		
607-520-00-2	A mixture of: sodium 4,5-dihydro-2-[(propionato)(C ₆₋₁₈)alkyl]-3H-imidazolium-N-ethylphosphate; disodium 4,5-dihydro-2-[(dipropionato)(C ₆₋₁₈)alkyl]-3H-imidazolium-N-ethylphosphate		427-740-0	—	Xi; R41 R43	Xi R: 41-43 S: (2-)24-26-37/39		
607-521-00-8	tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate		429-270-1	136210-30-5	R43 R52-53	Xi R: 43-52/53 S: (2-)36/37-61		
607-522-00-3	sodium salt of the polymer of: sodium 2-methylbuta-1,3-diene-1-sulfonate with acrylic acid and 2-hydroxyethyl-2-methylacrylate		429-720-7	184246-86-4	R52-53	R: 52/53 S: 61		

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607-523-00-9	Mixture of mono to tetra(lithium and/or sodium)3-amino-10-[4-(4-amino-3-sulfonatoanilino)-6-[methyl-(2-sulfonatoethyl)amino]-1,3,5-triazin-2-ylamino]-6-1,3-dichlorobenzo[1,2-B:4,5-B']di[1,4]benzoxazine-4,11-disulfonate; mono to tetra(lithium and/or sodium)3-amino-10-[4,6-bis(4-amino-3-sulfonatoanilino)-1,3,5-triazin-2-ylamino]-6-1,3-dichlorobenzo[1,2-B:4,5-B']di[1,4]benzoxazine-4,11-disulfonate; mono to penta(lithium and/or sodium)10,10'-diamino-6,6',1,3,1,3'-tetrachloro-3,3'-[6-[methyl-(2-sulfonatoethyl)amino]-1,3,5-triazin-2,4-diyl]diimino]bis[benzo[1,2-B:4,5-B']di[1,4]benzoxazine-4,11-disulfonate; mono to hepta(lithium and/or sodium)10-amino-6,6',1,3,1,3'-tetrachloro-10'[4-(4-amino-3-sulfonatoanilino)-[6-methyl-(2-sulfonatoethyl)amino]-1,3,5-triazin-2,4-diimino]bis[benzo[1,2-B:4,5-B']di[1,4]benzoxazine-4,11-disulfonate; mono to hepta(lithium and/or sodium)10,10'-diamino-6,6',3,3'[(2-sulfonato)-1,4-phenylenediimino]bis[6-methyl-(2-sulfonatoethyl)amino]-1,3,5-triazin-2,4-diyl]diimino]bis[benzo[1,2-B:4,5-B']di[1,4]benzoxazine-4,11-disulfonate		430-200-7	—	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61		
607-524-00-4	tall oil 2-[(tetrahydro-2H-pyran-2-yl) thio]ethyl esters		430-310-5	—	R53	R: 53 S: 61		
607-525-00-X	(Z)-2-methoxyimino-2-[2-(tritylamino)thiazol-4-yl]acetic acid		431-520-1	64485-90-1	E; R2 Carc. Cat. 3; R40 R52-53	E; Xn R: 2-40-52/53 S: (2-)23-25-35-36/37-61		
607-528-00-6	(S)-3-methyl-2-(2-oxotetrahydropyrimidine-1-yl)butyric acid		430-900-2	192725-50-1	Xi; R41	Xi R: 41 S: (2-)26-39		

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607-529-00-1	benzyl <i>cis</i> -4-ammonium-4'-toluenesulfonato-1-cyclohexanecarboxylate		426-070-6	67299-45-0	R52-53	R: 52/53 S: 61		
607-530-00-7	A mixture of isomers of: C ₇₋₉ -alkyl 3-(3,5-di- <i>trans</i> -butyl-4-hydroxyphenyl)propionate		406-040-9	125643-61-0	R53	R: 53 S: 61		
607-531-00-2	methyl 3-amino-4,6-dibromo-2-methyl-benzoate		425-190-6	119916-05-1	Xn; R48/22 N; R51-53	Xn; N R: 48/22-51/53 S: (2-)22-36-61		
607-532-00-8	(S)-1-[2- <i>trans</i> -butoxycarbonyl-3-(2-methoxyethoxy)propyl]-1-cyclopentanecarboxylic acid, cyclohexylamine salt		425-510-4	167944-94-7	R52-53	R: 52/53 S: 61		
607-533-00-3	pentasodium monohydrogen 6-chloro-3,10-bis[2-[4-chloro-6-(2,4-disulfophenylamino)-1,3,5-triazin-2-yl-amino]ethylamino]-1,3-ethylbenzo[5.6][1.4]oxazino[2,3-b]phenoxazine-4,11-disulfonate		414-910-4	—	Xi; R41 R43	Xi R: 41-43 S: (2-)22-24-26-37/39		
607-534-00-9	ethyl 2-(3-benzoylphenyl)propanoate		414-920-9	60658-04-0	T; R25-48/25 R43 N; R51-53	T; N R: 25-43-48/25-51/53 S: (1/2-)36/37-45-61		
607-535-00-4	potassium 4-iodo-2-sulfonato-benzoic acid		426-620-5	—	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61		
607-536-00-X	(2,6-xylyloxy) acetic acid		430-910-7	13335-71-2	Xn; R22 Xi; R41 R52-53	Xn R: 22-41-52/53 S: (2-)26-39-61		
607-537-00-5	isopropylammonium 2-(3-benzoylphenyl)propionate		417-970-1	—	T; R25-48/25 Xn; R21 Xi; R41 N; R50-53	T; N R: 21-25-41-48/25-50/53 S: (1/2-)22-26-36/37/39-45-60-61		

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607-539-00-6	propyl((4-(5-oxo-3-propylisoxazolidin-4-ylidenmethin)phenyl)propoxycarbonylmethyleneamino)acetate		431-000-2	198705-81-6	R53	R: 53 S: 61		
607-540-00-1	1-(mercaptomethyl)cyclopropylacetic acid		420-240-3	162515-68-6	C; R34 Xn; R21/22 R43 N; R51-53	C; N R: 21/22-34-43-51/53 S: (1/2-)22-26-36/37/39-45-61		
607-541-00-7	[(1-methyl-1,2-ethanediy)bis[nitriobis(methylene)]]tetrakis(phosphonic acid)		421-940-1	28698-31-9	Xi; R41 N; R50-53	Xi; N R: 41-50/53 S: (2-)26-39-60-61		
607-542-00-2	methyl 2-(4-butanefulfonamidophenoxy)tetradecanoate		422-110-1	—	N; R50-53	N R: 50/53 S: 60-61		
607-543-00-8	poly-[[[(4-(4-(ethyl-ethylene)amino)phenyl)-(4-(ethyl-(2-oxyethylene)amino)phenyl)methinyl)-3-methylcyclohexa-2,5-dienylidene]-N-ethyl-N-(2-hydroxyethyl)ammonium acetate]		427-480-8	176429-22-4	Xi; R37/38-41 N; R50-53	Xi; N R: 37/38-41-50/53 S: (2-)26-37/39-60-61		
607-544-00-3	ethyl 6,8-difluoro-1-(formylmethylamino)-1,4-dihydro-7-(4-methyl)piperazin-1-yl)-4-oxoquinoline-3-carboxylate		427-490-2	158585-86-5	R52-53	R: 52/53 S: 61		
607-545-00-9	1,2-dimethyl-3-(1-methylethenyl)cyclopentyl acetate		424-070-0	94346-09-5	Xi; R38 N; R51-53	Xi; N R: 38-51/53 S: (2-)37-61		
607-546-00-4	A mixture of: methyl {[5-acetylamino-4-(2-chloro-4-nitrophenylazo)phenyl]methoxycarbonylmethylamino}acetate; methyl {[5-acetylamino-4-(2-chloro-4-nitrophenylazo)phenyl]ethoxycarbonylmethylamino}acetate		424-290-7	188070-47-5	R43	Xi R: 43 S: (2-)22-24-37		

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607-547-00-X	18-methylnonadecyl 2,2 - dimethylpropanoate		424-370-1	125496-22-2	Xi; R38 R43 R53	Xi R: 38-43-53 S: (2-)24-37-61		
607-548-00-5	1-(2,4-dichlorophenyl)-2-(1H-imidazol-1-yl)ethanone methane-sulfonate		431-010-7	154486-26-7	Xn; R22 Xi; R41 N; R51-53	Xn; N R: 22-41-51/53 S: (2-)22-26-39-61		
607-549-00-0	methyl (E)-2((3-(1,3-benzodioxol-5-yl)-2-methyl-1-propenyl) amino)benzoate		424-430-7	125778-19-0	N; R50-53	N R: 50/53 S: 60-61		
607-550-00-6	2-amino-4-bromo-5-chlorobenzoic acid		424-700-4	—	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61		
607-551-00-1	tetrabutylammonium 2-amino-6-iodopurinate		424-710-9	156126-48-6	Xn; R21/22-48/22 Xi; R38-41 R43 N; R51-53	Xn; N R: 21/22-38-41-43-48/ 22-51/53 S: (2-)26-36/37/39-61		
607-552-00-7	hexadecyl 3-amino-4-isopropoxybenzoate		424-830-1	—	R53	R: 53 S: 35-61		
607-553-00-2	7-amino-4-hydroxy-2-naphthalenesulfonic acid, coupled with 5 (or 8) -amino-8 (or 5)-[[4-[[[4-amino-6(or 7)-sulfo-1-naphthyl]azo]phenyl]amino]-3-sulfophenyl]azo]-2-naphthalenesulfonic acid and 4-hydroxy-7-(phenylamino)-2-naphthalenesulfonic acid, sodium salt		424-850-0	—	Xi; R41	Xi R: 41 S: (2-)26-39		
607-554-00-8	2,4-diamino-5-[4-[(2-sulfoxyethyl)sulfonyl]phenylazo]benzenesulfonic acid		424-870-1	27624-67-5	E; R3 Xi; R41 R52-53	E; Xi R: 3-41-52/53 S: (2-)22-26-35-39-61		

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607-555-00-3	1,1,3,3-tetramethylbutylperoxy-pivalate		424-980-8	22288-41-1	F; R11 O; R7 Xi; R38 R43 N; R51-53	F; O; Xi; N R: 7-11-38-43-51/53 S: (2-)7-14-16-36/37/39-47-61		
607-556-00-9	2-acetoxymethylene-4-acetylphenylacetate		425-160-2	24085-06-1	Xn; R22-48/22 Xi; R41 R43 N; R50-53	Xn; N R: 22-41-43-48/22-50/53 S: (2-)22-26-36/37/39-60-61		
607-557-00-4	salt of: (1 <i>S</i> - <i>cis</i>)-1-amino-2,3-dihydro-1 <i>H</i> -inden-2-ol and [R-[R*R*]]-2,3-dihydroxybutanedioic acid		425-210-3	169939-84-8	R43	Xi R: 43 S: (2-)24-37		
607-558-00-X	2 <i>S</i> -isopropyl-5 <i>R</i> -methyl-1 <i>R</i> -cyclohexyl (2 <i>R</i> ,5 <i>S</i>)-5-(4-amino-2-oxo-2 <i>H</i> -pyrimidin-1-yl)-[1.3]-oxathiolane-2-carboxylate		425-250-1	147027-10-9	N; R51-53	N R: 51/53 S: 61		
607-559-00-5	coconut oil, reaction products with glycerol esters of 3,5-bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid		425-400-6	179986-09-5	R53	R: 53 S: 61		
607-560-00-0	(<i>R,S</i>)-2-butyloctanedioic acid		431-210-4	50905-10-7	Xi; R41	Xi R: 41 S: (2-)26-39		
607-561-00-6	sodium 4-hydroxy-3-(<i>N'</i> -(2-(2-hydroxyethylenesulfonyl)ethylene)ureido)-5-nitrobenzenesulfonate		425-460-3	—	R43 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
607-562-00-1	A mixture of: (2 <i>R</i> ,3 <i>R</i>)-3-(2-ethoxyphenoxy)-2-hydroxy-3-phenylpropylammonium methanesulfonate; (2 <i>S</i> ,3 <i>S</i>)-3-(2-ethoxyphenoxy)-2-hydroxy-3-phenylpropylammonium methanesulfonate		425-530-3	98769-75-6	Xn; R22 Xi; R41 N; R51-53	Xn; N R: 22-41-51/53 S: (2-)22-26-39-61		

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607-563-00-7	5,7-dichloro-4-hydroxyquinoline-3-carboxylic acid		431-250-2	171850-30-9	N; R51-53	N R: 51/53 S: 61		
607-564-00-2	1,6-hexanediammonium, sodium 5-sulfato-1,3-benzenedicarboxylate		425-730-0	51178-75-7	R43	Xi R: 43 S: (2-)24-37		
607-565-00-8	3-ethyl 5-methyl 2-(2-aminoethoxymethyl)-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylate		425-820-1	88150-42-9	T; R25 Xn; R48/22 Xi; R41 N; R50-53	T; N R: 25-41-48/22-50/53 S: (1/2-)26-36/37/39-45-60-61		
607-566-00-3	A mixture of: dodecylphenyl dodecylhydroxybenzenecarboxylate; bis(dodecylphenyl)dodecyl hydroxybenzenedicarboxylate		426-140-6	—	R53	R: 53 S: 61		
607-567-00-9	potassium 3-iodo-6-methylbenzenesulfonate		426-300-5	—	Xi; R41	Xi R: 41 S: (2-)26-39		
607-568-00-4	potassium 2-chloro-3-(benzyloxy)propionate		426-350-8	138666-92-9	Xn; R22-48/22 Xi; R41 R43	Xn R: 22-41-43-48/22 S: (2-)26-36/37/39		
607-569-00-X	A mixture of: sodium 2-amino-4-(2,6-difluoropyrimidin-4-ylamino)benzenesulfonate; sodium 2-amino-4-(4,6-difluoropyrimidin-4-ylamino)benzenesulfonate		426-470-0	—	R43	Xi R: 43 S: (2-)22-24-37		
607-570-00-5	sodium (6R—trans)-7-amino-8-oxo-3-[[[1-(sulfomethyl)-1H-tetrazol-5-yl]thio]methyl]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate monohydrate		426-520-1	71420-85-4	R43	Xi R: 43 S: (2-)24-37		

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607-571-00-0	2-cyclopentene-1-acetic acid, 3-hydroxy-2-pentyl-, methyl ester acetate		431-400-7	57374-49-9	R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
607-572-00-6	diethyl thiophosphoryl (Z)-(2-aminothiazol-4-yl)methoxyimino acetate		426-790-0	162208-27-7	Xn; R21/22-48/22 R43 N; R50-53	Xn; N R: 21/22-43-48/22-50/53 S: (2-)36/37-60-61		
607-573-00-1	A mixture of: disodium 7-(2,4-difluoropyrimidin-6-ylamino)-4-hydroxy-3-(4-methoxy-2-sulfonatophenylazo)naphthalene-2-sulfonate; disodium 7-(4,6-difluoropyrimidin-2-ylamino)-4-hydroxy-3-(4-methoxy-2-sulfonatophenylazo)naphthalene-2-sulfonate		426-840-1	—	Xi; R41	Xi R: 41 S: (2-)22-26-39		
607-574-00-7	[1R-(1- α ,2 β ,5 α)]-mono[5-methyl-2-(1-methylethyl)cyclohexyl]butanedioate		426-890-4	77341-67-4	Xi; R41	Xi R: 41 S: (2-)26-39		
607-575-00-2	4-(5-(5-[1-(4-carboxyphenyl)hexahydro-2,4,6-trioxypyrimidin-5-ylidene]penta-1,3-dienyl)-1,2,3,4-tetrahydro-6-hydroxy-2,4-dioxypyrimidin-1-yl)benzoic acid-triethylamine salt		426-900-7	—	Xi; R37 R52-53	Xi R: 37-52/53 S: (2-)61		
607-576-00-8	branched, octyl 3-[3,5-di(<i>trans</i> -butyl)-4-hydroxyphenyl]propanoate		427-030-0	—	N; R50-53	N R: 50/53 S: 60-61		
607-577-00-3	(2R*,3S*)-2-(2,4-difluorophenyl)-3-(5-fluoro-4-pyrimidinyl)-1-(1H-1,2,4-triazol-1-yl)butan-2-ol (1R)-10-camphorsulfonate		427-100-0	—	Xn; R22 Xi; R41 R43 R52-53	Xn R: 22-41-43-52/53 S: (2-)22-24-26-37/39-61		
607-578-00-9	ethyl 4-((4-diethylamino-2-methylphenyl)imino)-4,5-dihydro-1-isopropyl-5-oxo-1H-pyrazole-3-carboxylate		427-110-5	—	Xn; R22-48/22 R53	Xn R: 22-48/22-53 S: (2-)36-61		

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607-579-00-4	diethyl[(p-ethoxyanilino)methylene]malonate		431-430-0	103976-28-9	Xn; R22 N; R51-53	Xn; N R: 22-51/53 S: (2-)61		
607-581-00-5	ethyl 2-ethoxy-4-carboxymethylbenzoate		427-630-2	99469-99-5	Xi; R41	Xi R: 41 S: (2-)26-39		
607-582-00-0	A mixture of: tetrasodium 7-(4-(4-fluoro-6-(4-(2-sulfonatoethylsulfonyl)phenylamino)-1,3,5-triazin-2-ylamino)-2-ureidophenylazo)naphthalene-1,3,6-trisulfonate; tetrasodium 7-(4-(4-hydroxy-6-(4-(2-sulfonatoethylsulfonyl)phenylamino)-1,3,5-triazin-2-ylamino)-2-ureidophenylazo)naphthalene-1,3,6-trisulfonate		427-650-1	—	R52-53	R: 52/53 S: 22-61		
607-583-00-6	4-amino-3-[[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-1-naphthalene sulfonic acid		427-680-5	188907-52-0	Xi; R41 R43 R52-53	Xi R: 41-43-52/53 S: (2-)22-24-26-37/39-61		
607-584-00-1	trisodium 3-[2-acetyl-amino-4-(4-chloro-6-[4-(2-sulfonatoxyethylsulfonyl)phenylamino]-1,3,5-triazine-2-ylamino)phenylazo]naphthalene-1,5-disulfonate		427-710-7	215612-56-9	Xi; R41 R43 R52-53	Xi R: 41-43-52/53 S: (2-)24-26-37/39-61		
607-585-00-7	strontium 2-[(2-hydroxy-6-sulfonato-1-naphthyl)azo]naphthalene-1-sulfonate		427-930-3	—	R43	Xi R: 43 S: (2-)22-24-37		
607-586-00-2	dodecyl 3-amino-4-chlorobenzoate		428-020-9	6195-20-6	R43 R53	Xi R: 43-53 S: (2-)24-37-61		
607-587-00-8	ethyl cis-4-[4-[[2-(2,4-dichlorophenyl)-2-(1H-imidazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]piperazine-1-carboxylate		428-030-3	67914-69-6	Xn; R22-48/22 N; R50-53	Xn; N R: 22-48/22-50/53 S: (2-)36-60-61		

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607-588-00-3	A mixture of: 2-ethylhexyl 2,3,4,5-tetrabromobenzoate; bis(2-ethylhexyl)3,4,5,6-tetrabromo phthalate		428-050-2	—	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)36/37-60-61		
607-589-00-9	tetrakis(1,2,2,6,6-pentamethyl-4-piperidyl)-1,2,3,4-butanetetracarboxylate		428-070-1	91788-83-9	T; R48/25 Xn; R22 N; R50-53	T; N R: 22-48/25-50/53 S: (1/2-)22-36-45-57-60-61		
607-590-00-4	hexadecyl 3-[2-(5,5-dimethyl-2,4-dioxo-1,3-oxazolidin-3-yl)-4,4-dimethyl-3-oxovaleramido]-4-isopropoxybenzoate		428-140-1	210706-50-6	R53	R: 53 S: 61		
607-591-00-X	A mixture of: trisodium 5-(4-fluoro-6-morpholin-4-yl-1,3,5-triazin-2-ylamino)-4-hydroxy-3-(4-(2-sulfooxyethanesulfonyl)phenylazo)naphthalene-2,7-disulfonate; disodium 3-(4-ethenesulfonylphenylazo)-5-(4-fluoro-6-morpholin-4-yl-1,3,5-triazin-2-ylamino)-4-hydroxynaphthalene-2,7-disulfonate		428-400-4	—	Xi; R41	Xi R: 41 S: (2-)22-26-39		
607-592-00-5	di(C ₉₋₁₁ -alkyl) cyclohexane-1,4-dicarboxylate		428-870-0	—	R53	R: 53 S: 61		
607-593-00-0	4-(2-methylacryloyloxy)phenyl 4-allyloxybenzoate		429-000-2	159235-16-2	R43 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
607-594-00-6	ethyl (1S,5R,6S)-5-(1-ethylpropoxy)-7-oxabicyclo[4.1.0]hept-3-ene-3-carboxylate		429-020-1	204254-96-6	Xn; R48/22 R43	Xn R: 43-48/22 S: (2-)22-36/37		
607-595-00-1	N-amidino-N-methylglycine-2-oxopropionate		429-120-5	208535-04-0	Xi; R41	Xi R: 41 S: (2-)26-39		

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607-596-00-7	ethyl 2-(4-phenoxyphenyl)lactate		429-220-9	132584-17-9	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)36/37-57-60-61		
607-597-00-2	tetrasodium 4,4'-bis{4-[4-(2-hydroxyethylamino)-6-(4-sulfonatoanilino)-1,3,5-triazin-2-ylamino]phenylazo}stilbene-2,2'-disulfonate		429-230-3	—	Xi; R41	Xi R: 41 S: (2-)22-26-39		
607-598-00-8	trisodium 3-amino-4-[4-[4-(2-(ethenylsulfonylethoxy)ethylamino)-6-fluoro-1,3,5-triazine-2-ylamino]-2-sulfophenylazo]-5-hydroxynaphthalene-2,7-disulfonate		429-240-8	212652-59-0	Xi; R41	Xi R: 41 S: (2-)26-39		
607-599-00-3	1,1-dimethylpropyl 3,5,5-trimethylperoxyhexanoate		431-610-9	68860-54-8	O; R7 R43 N; R50-53	O; Xi; N R: 7-43-50/53 S: (2-)3-14-36/37/39-60-61		
607-600-00-7	(1S,1'R)-[1-(3',3'-dimethyl-1'-cyclohexyl)ethoxycarbonyl]methyl propanoate		431-700-8	—	N; R51-53	N R: 51/53 S: 61		
607-601-00-2	1,4-dihydroxy-2,2,6,6-tetramethylpiperidinium 2-hydroxy-1,2,3-propanetricarboxylate		429-370-5	220410-74-2	Xn; R22	Xn R: 22 S: (2-)		
607-602-00-8	ethyl (3-cyanomethyl-3,4-dihydro-4-oxophthalazin-1-yl)acetate		429-680-0	122665-86-5	R43 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
607-603-00-3	lithium sodium 4,4',4''-(nitro)tris(ethane-2,1-diylimino(6-chloro-1,3,5-triazine-4,2-diyl)imino)tris(5-hydroxy-6-(1-sulfonaphthalene-2-ylazo)-2,7-naphthalene)disulfonate		429-730-1	193562-37-7	Xi; R41 R43	Xi R: 41-43 S: (2-)22-24-26-37/39		

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607-604-00-9	guanidinium benzoate		429-820-0	26739-54-8	Xn; R22	Xn R: 22 S: (2-)22-25		
607-605-00-4	methyl 4-iodo-2-(3-(4-methoxy-6-methyl-1,3,5-triazine-2-yl)ureidosulfonyl)benzoate		429-890-2	144550-06-1	N; R50-53	N R: 50/53 S: 60-61		
607-606-00-X	(Z)-2-(2-t-butoxycarbonylamino-4-thiazolyl)pent-2-enoic acid		430-100-3	86978-24-7	Xn; R22	Xn R: 22 S: (2-)22		
607-607-00-5	A mixture of: calcium bis(C ₁₀₋₁₄ branched alkyl salicylate); calcium bis(C ₁₈₋₃₀ -alkyl salicylate); calcium C ₁₀₋₁₄ branched alkylsalicylato-C ₁₈₋₃₀ -alkyl salicylate; calcium bis (C ₁₀₋₁₄ branched alkyl phenolate); calcium bis (C ₁₈₋₃₀ -alkyl phenolate); calcium C ₁₀₋₁₄ branched alkylphenolato-C ₁₈₋₃₀ -alkyl phenolate; C ₁₀₋₁₄ branched alkyl phenol; C ₁₈₋₃₀ -alkyl phenol		430-180-1	—	Xi; R38 N; R51-53	Xi; N R: 38-51/53 S: (2-)24-37-61		
607-608-00-0	pentapotassium 2-(4-{5-[1-(2,5-disulfophenyl)-4,5-dihydro-3-methylcarbamoyl-5-oxopyrazol-4-ylidene]-3-(2-pyrrolidinone-1-yl)-1,3-pentadienyl}-3-methylcarbamoyl-5-oxopyrazol-1-yl)benzene-1,4-disulfonate		430-210-1	—	N; R50-53	N R: 50/53 S: 60-61		
607-609-00-6	ethyl (3R)-4-cyano-3-hydroxybutanoate		430-220-6	141942-85-0	Xi; R36	Xi R: 36 S: (2-)26		
607-610-00-1	trisodium 4-hydroxy-6-(sulfonatomethylamino)-5-(2-(2-sulfa-toethylsulfonyl)phenylazo)naphthalene-2-sulfonate		430-280-3	—	R43	Xi R: 43 S: (2-)22-24-37		

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607-611-00-7	methyl 3-amino-2,2,3-trimethylbutyrate		431-720-7	90886-53-6	C; R34 Xn; R22 R52-53	C R: 22-34-52/53 S: (1/2-)23-26-36/37/39-45-61		
607-612-00-2	A mixture of: 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-octanesulfonic acid; ammonium 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-1-octanesulfonate		432-190-1	182176-52-9	Xn; R22-48/22 Xi; R41	Xn R: 22-41-48/22 S: (2-)26-36/37/39		
607-613-00-8	Mixture of: succinic acid; monopersuccinic acid; dipersuccinic acid; monomethyl ester of succinic acid; monomethyl ester of persuccinic acid; dimethyl succinate; glutaric acid; monoperglutaric acid; diperglutaric acid; monomethyl ester of glutaric acid; monomethyl ester of perglutaric acid; dimethyl glutarate; adipic acid; monoperadipic acid; diperadipic acid; monomethyl ester of adipic acid; monomethyl ester of peradipic acid; dimethyl adipate; hydrogen peroxide; methanol; water		432-790-1	—	Muta. Cat. 3; R68 C; R34 Xn; R20/21/22	C R: 20/21/22-34-68 S: (1/2-)26-28-36/37/39-45		

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607-614-00-3	2-(10-oxo-10H-9-oxa-10-phosphaphenanthren-10-ylmethyl) succinic acid		426-480-5	63562-33-4	R43 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
607-615-00-9	Reaction product of thioglycerol and mercaptoacetic acid consisting mainly of 3-mercapto-1,2-bismercaptoacetoxypropane and oligomers of this substance		431-120-5	—	T; R23 Xn; R22 Xi; R36 R43	T R: 22-23-36-43 S: (1/2-)24-26-37-45		
607-616-00-4	2,4-dichloro-5-fluorobenzoylchloride		428-390-1	86393-34-2	Xi; R37/38-41 R43 R52-53	Xi R: 37/38-41-43-52/53 S: (2-)24-26-37/39-61		
607-617-00-X	bis(2-ethylhexyl)-4,5-epoxycyclohexane-1,2-dicarboxylate		430-700-5	10138-36-0	R43	Xi R: 43 S: (2-)24-37		
608-020-00-7	diphenoxymethylenecyanamide		427-300-8	79463-77-7	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61		
608-032-00-2	acetamiprid (ISO); (E)-N ¹ -[(6-chloro-3-pyridyl)methyl]-N ² -cyano-N ¹ -methylacetamidine		—	135410-20-7	Xn; R22 R52-53	Xn R: 22-52/53 S: (2-)46-61		
608-044-00-8	2-cyclohexylidene-2-phenylacetone nitrile		423-740-1	10461-98-0	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61		
608-046-00-9	5-(4-chloro-2-nitro-phenylazo)-1,2-dihydro-6-hydroxy-1,4-dimethyl-2-oxo-pyridine-3-carbonitrile		425-310-7	77889-90-8	R53	R: 53 S: 61		
608-047-00-4	2-piperidin-1-yl-benzonitrile		427-330-1	72752-52-4	N; R51-53	N R: 51/53 S: 61		

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608-048-00-X	1-(3-cyclopentyloxy-4-methoxyphenyl)-4-oxo-cyclohexanecarbonitrile		427-450-4	152630-47-2	Xn; R22-48/22 R43 N; R51-53	Xn; N R: 22-43-48/22-51/53 S: (2-)36/37-61		
608-049-00-5	2-(4-(4-(butyl-(1-methylhexyl)amino)phenyl)-3-cyano-5-oxo-1,5-dihydropyrrol-2-ylidene)propandinitrile		429-180-2	157362-53-3	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-60-61		
608-050-00-0	A mixture of: 5-(2-cyano-4-nitrophenylazo)-2-(2-(2-hydroxyethoxy)ethylamino)-4-methyl-6-phenylaminonicotinonitrile; 5-(2-cyano-4-nitrophenylazo)-6-(2-(2-hydroxyethoxy)ethylamino)-4-methyl-2-phenylaminonicotinonitrile		429-760-5	—	R53	R: 53 S: 61		
608-051-00-6	(R)-4-(4-dimethylamino-1-(4-fluorophenyl)-1-hydroxybutyl)-3-(hydroxymethyl)benzonnitrile		430-760-2	219861-18-4	Xn; R22 R43 N; R51-53	Xn; N R: 22-43-51/53 S: (2-)36/37-61		
608-052-00-1	(S)-4-(4-dimethylamino-1-(4-fluorophenyl)-1-hydroxybutyl)-3-(hydroxymethyl)benzonnitrile		430-770-7	128173-52-4	Xn; R22 R43 N; R51-53	Xn; N R: 22-43-51/53 S: (2-)36/37-61		
608-053-00-7	(R,S)-4-(4-dimethylamino-1-(4-fluorophenyl)-1-hydroxybutyl)-3-(hydroxymethyl)benzonnitrile		430-780-1	103146-25-4	Xn; R22 R43 N; R51-53	Xn; N R: 22-43-51/53 S: (2-)36/37-61		
608-054-00-2	(R,S)-4-(4-dimethylamino-1-(4-fluorophenyl)-1-hydroxybutyl)-3-(hydroxymethyl)benzonnitrile hemisulfate		430-790-6	—	Xn; R22 Xi; R41 R43 N; R51-53	Xn; N R: 22-41-43-51/53 S: (2-)22-26-36/37/39-61		

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608-055-00-8	fipronil (ISO); 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile		—	120068-37-3	T; R23/24/25-48/25 N; R50-53	T; N R: 23/24/25-48/25-50/53 S: (1/2-)28-36/37-45-60-61	C ≥ 25 %: T, N; R23/24/25-48/25-50/53 10 % ≤ C < 25 %: T, N; R20/21/22-48/25-50/53 3 % ≤ C < 10 %: Xn, N; R20/21/22-48/22-50/53 2,5 % ≤ C < 3 %: Xn, N; R48/22-50/53 1 % ≤ C < 2,5 %: Xn, N; R48/22-51/53 0,25 % ≤ C < 1 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53	
608-056-00-3	N-methyl-N-cyanomethylmorpholiniummethysulfate		429-340-1	—	Xn; R22 Xi; R41	Xn R: 22-41 S: (2-)22-26-39		
608-057-00-9	4-cyanomethyl-4-methylmorpholin-4-iumhydrogene sulfate		431-200-1	208538-34-5	Xn; R22 Xi; R41 R43	Xn R: 22-41-43 S: (2-)22-24-26-37/39		
609-072-00-3	4-mesyl-2-nitrotoluene		430-550-0	1671-49-4	Repr. Cat. 3; R62 Xn; R22 R43 R52-53	Xn R: 22-43-62-52/53 S: (2-)22-36/37-61		
609-073-00-9	lithium potassium sodium N,N'-bis{6-[7-[4-(4-chloro-1,3,5-triazin-2-yl)amino-4-(2-ureidophenylazo)]naphthalene-1,3,6-trisulfonato]}-N'-(2-aminoethyl)piperazine		427-850-9	—	R43	Xi R: 43 S: (2-)22-24-37		
611-050-00-3	A mixture of: pentasodium 7-amino-3-[[4-[[4-[[4-[[6-amino-1-hydroxy-3-sulfonato-2-naphthyl]azo]-7-sulfonato-1-naphthyl]azo]phenyl]amino]-3-sulfonatophenyl]azo]-6-sulfonato-1-naphthyl]azo]-4-hydroxy-naphthalen-2-sulfonate;		415-350-3	—	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)22-26-39-61		

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	<p>pentasodium 7-amino-8-[4-[4-[4-[4-(2-amino-5-hydroxy-7-sulfonato-naphthalen-1-ylazo)-7-sulfonatonaphthalen-1-ylazo]-phenylamino]-3-sulfonato-phenylazo]-6-sulfonato-naphthalen-1-ylazo]-4-hydroxy-naphthalene-2-sulfonate;</p> <p>pentasodium 7-amino-8-[4-[4-[4-[4-(6-amino-1-hydroxy-3-sulfonato-naphthalen-1-ylazo)-7-sulfonatonaphthalen-1-ylazo]-phenylamino]-3-sulfonato-phenylazo]-6-sulfonato-naphthalen-1-ylazo]-4-hydroxy-naphthalene-2-sulfonate;</p> <p>tetrasodium 7-amino-4-hydroxy-3-[4-[4-[4-(4-hydroxy-7-sulfonato-naphthalen-1-ylazo)-2-sulfonato-phenylamino]phenylazo]-6-sulfonato-naphthalen-1-ylazo]naphthalene-2-sulfonate;</p> <p>tetrasodium 7-amino-4-hydroxy-3-[4-[4-[4-(4-amino-7-sulfonato-naphthalen-1-ylazo)-2-sulfonato-phenylamino]phenylazo]-6-sulfonato-naphthalen-1-ylazo]naphthalene-2-sulfonate</p>							
611-102-00-5	<p>Reaction product of: C.I. Leuco-Sulfur Black 1 and a mixture of: disodium 4-{4-[8-amino-1-hydroxy-7-(4-sulfamoylphenylazo)-3,6-disulfonato-2-naphthylazo]phenylsulfonlamino}benzenediazonium chloride;</p> <p>disodium 4-{4-[2,6-dihydroxy-3-(8-hydroxy-3,6-disulfonato-1-naphthylazo)phenylazo]phenylsulfonlamino}benzene diazonium chloride</p>		424-500-7	—	R52-53	R: 52/53 S: 61		
611-139-00-7	<p>Reaction product of: C.I. Leuco Sulfur Black 1 with (3-chloro-2-hydroxypropyl)trimethylammonium chloride</p>		424-510-1	—	Xi; R41 N; R51-53	Xi; N R: 41, 51/53 S: (2)26-39-61		

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611-141-00-8	5-(4-[4-[4-(3,5-dicarboxy-phenyl-azo)phenylamino]-6-morpholin-4-yl-1,3,5-triazin-2-ylamino]phenylazo)isophthalic acid, mixed monosodium and diammonium salt		414-410-6	—	Xi; R41 R43	Xi R: 41-43 S: (2-)22-24-26-37/39		
611-142-00-3	Product-by-process definition polyazodyestuff obtained by coupling 4-[4-(1-amino-8-hydroxy-3,6-disulfo-2-naphthylazo)phenylsulfonylamino]benzenediazonium with a mixture of 4-carboxybenzenediazonium and diphenylamine-3-sulfo-4,4'-bis-diazonium, and further coupling of the obtained compounds with a mixture of naphth-2-ol and 3-aminophenol, sodium salts; sodium chloride		425-740-5	—	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61		
611-143-00-9	A mixture of: trisodium 2-(2-[α-(2-carboxylato-κ-O-4-sulfonato-phenylazo)benzylidene]hydrazino-κ-N')-6-(2,6-difluoropyrimidin-4-ylamino)-4-sulfonatophenolatocuprate (II); trisodium 2-(2-[α-(2-carboxylato-κ-O-4-sulfonatophenylazo)benzylidene]hydrazino-κ-N')-6-(4,6-difluoropyrimidin-2-ylamino)-4-sulfonatophenolatocuprate (II)		428-260-4	—	Xi; R41	Xi R: 41 S: (2-)22-26-39		
611-144-00-4	A mixture of: 7-amino-3,8-bis-[4-(2-sulfoxyethylsulfonyl)phenylazo]-4-hydroxynaphthalene-2-sulfonic acid, Na/K salt; 7-amino-3-[4-(2-sulfoxyethylsulfonyl)phenylazo]-4-hydroxy-8-[4-(2-sulfoxyethylsulfonyl)-2-sulfoxyphenylazo]naphthalene-2-sulfonic acid, Na/K salt;		429-070-4	214362-06-8	Xi; R41	Xi R: 41 S: (2-)22-26-39		

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	7-amino-8-[4-(2-sulfoxyethylsulfonyl)-phenylazo]-4-hydroxy-3-[4-(2-sulfoxyethylsulfonyl)-2-sulfo-phenylazo]naphthalene-2-sulfonic acid, Na/K salt; 7-amino-3,8-bis-[4-(2-sulfoxyethylsulfonyl)-2-sulfo-phenylazo]-4-hydroxynaphthalene-2-sulfonic acid, Na/K salt							
611-145-00-X	A mixture of: tetrasodium 3-(1,5-disulfonatophthalene-2-ylazo)-4-hydroxy-7-{4-chloro-6-[4-(2-sulfoxyethylsulfonyl)phenylamino]-1,3,5-triazine-2-ylamino} naphthalene-2-sulfonate; 3-(2,5-disulfo-phenylazo)-4-hydroxy-7-{4-chloro-6-[4-(2-sulfoxyethylsulfonyl)phenylamino]-1,3,5-triazine-2-ylamino} naphthalene-2-sulfonic acid, sodium salt		429-440-5	—	Xi; R41	Xi R: 41 S: (2-)22-26-39		
611-146-00-5	A mixture of: pentasodium 3-(4-(7-(2,4-diamino-5-sulfonato-3-(4-sulfonatophenylazo)phenylazo)-1-hydroxy-3-sulfonato-naphthalen-2-ylazo)-2-sulfonato-phenylamino)phenylazo)-4-hydroxy-6-(2-oxo-1-phenylcarbamoylpropylazo)naphthalene-2-sulfonate; pentasodium 6-((2,4-diamino-5-sulfonatophenyl)azo)-3-((4-((7-((2,4-diamino-5-sulfonatophenyl)azo)-1-hydroxy-3-sulfonatophthalen-2-yl)azo)phenylamino)-2-sulfonatophenyl)azo)-4-hydroxynaphthalene-2-sulfonate; pentasodium 6-((2,4-diamino-5-sulfonato-3-((4-sulfonatophenyl)azo)phenyl)azo)-3-((4-((1,7-dihydroxy-3-sulfonatophthalen-2-yl)azo)-2-sulfonatophenylamino)phenyl)azo)-4-hydroxynaphthalene-2-sulfonate;		430-070-1	—	N; R51-53	N R: 51/53 S: 61		

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	hexasodium 6-((2,4-diamino-5-sulfonatophenyl)azo)-3-((4-((7-((2,4-diamino-5-sulfonato-3-((4-sulfonatophenyl)azo)phenyl)azo)-1-hydroxy-3-sulfonato-naphthalen-2-yl)azo)-2-sulfonatophenyl)amino)phenyl)azo)-4-hydroxynaphthalene-2-sulfonate							
611-147-00-0	sodium, potassium, lithium 5-amino-3,6-bis(5-(4-chloro-6-(methyl-(2-methylaminoacetyl)amino)-1,3,5-triazin-2-ylamino)-2-sulfonatophenylazo)-4-hydroxynaphthalene-2,7-disulfonate		430-090-0	205764-96-1	Xi; R41 R43	Xi R: 41-43 S: (2-)22-24-26-37/39		
611-148-00-6	A mixture of: 2-(3-(2,6-dichloro-4-nitrophenylazo)carbazol-9-yl)ethanol; 2-(2-(3-(2,6-dichloro-4-nitrophenylazo)-carbazol-9-yl)-ethoxy)ethanol; 3-(2,6-dichloro-4-nitrophenylazo)carbazol		429-590-1	—	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-60-61		
611-149-00-1	2-(2-chloroacetoxy)ethyl 3-((4-(2,5-dichloro-4-fluorosulfonylphenylazo)-3-methylphenyl)ethylamino)propionate		427-570-7	193486-83-8	N; R51-53	N R: 51/53 S: 61		
611-150-00-7	tetralithium 2-[6-[7-[2-(carboxylato)phenylazo]-8-hydroxy-3,6-disulfonato-1-naphthylamino]-4-hydroxy-1,3,5-triazine-2-ylamino]benzoate		440-460-3	—	Xi; R36 R52-53	Xi R: 36-52/53 S: (2-)26-39-61		
611-151-00-2	chrysoidine; 4-(phenylazo)benzene-1,3-diamine		207-803-7	495-54-5	Muta. Cat. 3; R68 Xn; R22 Xi; R38 N; R50-53	Xn; N R: 22-38-68-50/53 S: (2-)23-26-36/37-46-60-61		

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611-152-00-8	chrysoidine monohydrochloride; 4-phenylazophenylene-1,3-diamine monohydrochloride; [1] chrysoidine monoacetate; 4-(phenylazo)benzene-1,3-diamine monoacetate; [2] chrysoidine acetate; 4-(phenylazo)benzene-1,3-diamine acetate; [3] chrysoidine-p-dodecylbenzene-sulfonate; dodecylbenzenesulfonic acid, compound with 4-(phenylazo)benzene-1,3-diamine (1:1); [4] chrysoidine dihydrochloride; 4-(phenylazo)benzene-1,3-diamine dihydrochloride; [5] chrysoidine sulfate; bis[4-(phenylazo)benzene-1,3-diamine] sulfate [6]		208-545-8 [1] 278-290-5 [2] 279-116-0 [3] 264-409-8 [4] 281-549-5 [5] 282-432-1 [6]	532-82-1 [1] 75660-25-2 [2] 79234-33-6 [3] 63681-54-9 [4] 83968-67-6 [5] 84196-22-5 [6]	Muta. Cat. 3; R68 Xn; R22 Xi; R38-41 N; R50-53	Xn; N R: 22-38-41-68-50/53 S: (2-)23-26-36/37/39-46-60-61		
611-153-00-3	chrysoidine C ₁₀₋₁₄ -alkyl derivatives and; benzenesulfonic acid, mono-C ₁₀₋₁₄ -alkyl derivatives, compounds with 4-(phenylazo)-1,3-benzenediamine; [1] chrysoidine compound with dibutyl-naphthalene sulfonic acid; dibutyl-naphthalenesulfonic acid, compound with 4-(phenylazo)benzene-1,3-diamine (1:1) [2]		286-946-7 [1] 304-236-8 [2]	85407-90-5 [1] 94247-67-3 [2]	Muta. Cat. 3; R68 Xn; R22 Xi; R38-41	Xn R: 22-38-41-68 S: (2-)23-26-36/37/39-46		
612-057-01-1	piperazine; [liquid]		203-808-3	110-85-0	Repr. Cat. 3; R62-63 C; R34 R42/43	Xn; C R: 34-42/43-62-63 S: (1,2-)23-26-36/37/39-45		

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612-122-01-4	hydroxylamine ...% [≤ 55 % in aqueous solution]	B	232-259-2	7803-49-8	R5 Carc. Cat. 3; R40 Xn; R21/22-48/22 Xi; R37/38-41 R43 N; R50	Xn; N R: 5-21/22-37/38-40-41-43-48/22-50 S: (2-)26-36/37/39-46-61		
612-169-00-3	bis(N-methyl-N-phenylhydrazine)sulfate		423-170-1	618-26-8	F; R11 T; R48/25 Xn; R22 Xi; R41 R43 N; R50-53	F; T; N R: 11-22-41-43-48/25-50/53 S: (1/2-)22-26-33-36/37/39-45-60-61		
612-203-00-7	C ₈₋₁₀ alkyl dimethyl hydroxyethyl ammoniumchloride (chain < C ₈ : <3 %, chain = C ₈ : 15 %-70 %, chain = C ₁₀ : 30 %-85 %, chain > C ₁₀ : <3 %)		417-360-3	—	Xn; R21/22 Xi; R38	Xn R: 21/22-38 S: (2-)25-36/37		
612-208-00-4	N-methylbenzene-1,2-diammonium hydrogen phosphate		424-460-0	—	Xn; R22 R43 N; R51-53	Xn; N R: 22-43-51/53 S: (2-)22-25-36/37-61		
612-216-00-8	1-amino-1-cyanamino-2,2-dicyanoethylene, sodium salt		425-870-2	19450-38-5	R43 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
612-219-00-4	(2-hydroxy-3-(3,4-dimethyl-9-oxo-10-thiaanthracen-2-yloxy)propyl)trimethylammonium chloride		402-200-7	—	R52-53	R: 52/53 S: 61		
612-220-00-X	N-nitro-N-(3-methyl-3,6-dihydro-2H-1,3,5-oxadiazin-4-yl) amine		431-060-1	153719-38-1	Xn; R22 R43 R52-53	Xn R: 22-43-52/53 S: (2-)22-24-37-61		

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612-221-00-5	2-amino-4-(trifluoromethyl)benzenethiol hydrochloride		429-560-8	4274-38-8	C; R34 Xn; R20/21/22-48/22 R43 N; R50	C; N R: 20/21/22-34-43-48/ 22-50 S: (1/2-)26-36/37/39-45- 61		
612-222-00-0	cis-1-(3-(4-fluorophenoxy)propyl)-3-methoxy-4-piperidinamine		425-080-8	104860-26-6	Xn; R21/22-48/22 Xi; R41 N; R50-53	Xn; N R: 21/22-41-48/22-50/53 S: (2-)26-36/37/39-60-61		
612-223-00-6	N-benzyl-N-ethyl-(4-(5-nitrobenzo[c]isothiazol-3-ylazo)phenyl)amine		425-300-2	186450-73-7	R43 R53	Xi R: 43-53 S: (2-)22-24-37-61		
612-224-00-1	N2,N4,N6-tris{4-[(1,4-dimethylpentyl)amino]phenyl}-1,3,5-triazine-2,4,6-triamine		426-150-0	121246-28-4	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-60-61		
612-225-00-7	1,4,7,10-tetraazacyclododecane		425-450-9	294-90-6	C; R34 Xn; R21/22 N; R50-53	C; N R: 21/22-34-50/53 S: (1/2-)22-26-36/37/39- 45-60-61		
612-226-00-2	3-(2'-phenoxyethoxy)propylamine		427-870-8	6903-18-0	Xn; R22 Xi; R38-41 R52-53	Xn R: 22-38-41-52/53 S: (2-)23-26-37/39-61		
612-227-00-8	benzyl-N-(2-(2-methoxyphenoxy)ethyl)amine hydrochloride		428-290-8	120606-08-8	Xn; R22 Xi; R41 N; R50-53	Xn; N R: 22-41-50/53 S: (2-)22-26-39-60-61		

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612-228-00-3	A mixture of: N-(3-(trimethoxysilyl)propyl)ethylenediamine; N-benzyl-N-(3-(trimethoxysilyl)propyl)ethylenediamine; N-benzyl-N'-[3-(trimethoxysilyl)propyl]ethylenediamine; N,N'-bis-benzyl-N'-[3-(trimethoxysilyl)propyl]ethylenediamine; N,N,N'-tris-benzyl-N'-[3-(trimethoxysilyl)propyl]ethylenediamine; N,N-bis-benzyl-N'-[3-(trimethoxysilyl)propyl]ethylenediamine		414-340-6	—	R10 Xn; R20/21/22-68/20/21/22 Xi; R41 R43 R52-53	Xn R: 10-20/21/22-41-43-68/20/21/22-52/53 S: (2-)26-36/37/39-61		
612-229-00-9	mepanipyrin; 4-methyl-N-phenyl-6-(1-propynyl)-2-pyrimidinamine		—	110235-47-7	Carc. Cat. 3; R40 N; R50-53	Xn; N R: 40-50/53 S: (2-)36/37-46-60-61		
612-230-00-4	N,N-bis(cocoyl-2-oxypropyl)-N,N-dibutylammonium bromide		431-530-4	—	C; R35 R43 N; R50-53	C; N R: 35-43-50/53 S: (1/2-)26-28-36/37/39-45-60-61		
612-231-00-X	3-((C ₁₂₋₁₈)-acylamino)-N-(2-((2-hydroxyethyl)amino)-2-oxoethyl)-N,N-dimethyl-1-propanaminium chloride		427-370-1	164288-56-6	Xi; R41 N; R50-53	Xi; N R: 41-50/53 S: (2-)26-39-60-61		
612-232-00-5	A mixture of: triisopropanolamine salt of 1-amino-4-(3-propionamidoanilino)anthraquinone-2-sulfonic acid; triisopropanolamine salt of 1-amino-4-[3,4-dimethyl-5-(2-hydroxyethylaminosulfonyl)anilino]anthraquinone-2-sulfonic acid		430-410-9	186148-38-9	R52-53	R: 52/53 S: 61		
612-237-00-2	hydroxylammonium hydrogen-sulfate; hydroxylamine sulfate (1:1)	T	233-154-4	10046-00-1	E; R2 Carc. Cat. 3; R40 Xn; R21/22-48/22 Xi; R36/38 R43 N; R50	E; Xn; N R: 2-21/22-36/38-40-43-48/22-50 S: (2-)36/37-61		

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613-161-00-2	2,4-diamino-6-hydroxymethylp-teridinehydrobromide		430-620-0	76145-91-0	Xn; R48/22 R43 R52-53	Xn R: 43-48/22-52/53 S: (2-)22-36/37-61		
613-162-00-8	(6 <i>R</i> - <i>trans</i>)-1-((7-ammonio-2-carboxylato-8-oxo-5-thia-1-azabicyclo-[4.2.0]oct-2-en-3-yl)methyl)pyridinium iodide		423-260-0	100988-63-4	Muta. Cat. 3; R68 R43 N; R51-53	Xn; N R: 43-68-51/53 S: (2-)36/37-61		
613-187-00-4	5-(2-amino-5-cyano-6-[2-(2-hydroxyethoxy)ethylamino]-4-methylpyridin-3-ylazo)-3-methyl-2,4-dicarbonitrilethiophene		410-530-8	—	R43	Xi R: 43 S: (2-)24-37		
613-192-00-1	3-benzyl-exo-6-nitro-2,4-dioxo-3-aza-cis-bicyclo[3.1.0]hexane		426-750-2	151860-15-0	R43 R52-53	Xi R: 43-52/53 S: (2-)24-37-61		
613-198-00-4	2-amino-4-dimethylamino-6-trifluoroethoxy-1,3,5-triazine		415-500-8	145963-84-4	Xn; R22-48/22 R52-53	Xn R: 22-48/22-52/53 S: (2-)22-36-61		
613-229-00-1	1-acetyl-4-(3-dodecyl-2,5-dioxo-1-pyrrolidinyl)-2,2,6,6-tetramethylpiperidine		411-930-5	106917-31-1	Xi; R38 R43 N; R50-53	Xi; N R: 38-43-50/53 S: (2-)24-37-60-61		
613-231-00-2	2,6-diamino-3-((pyridine-3-yl)azo)pyridine		421-430-9	28365-08-4	Xn; R22-48/22 N; R51-53	Xn; N R: 22-48/22-51/53 S: (2-)22-36-61		
613-232-00-8	3-(benzo[<i>b</i>]thien-2-yl)-5,6-dihydro-1,4,2-oxathiazine-4-oxide		431-030-6	163269-30-5	T; R23 Xn; R48/22 Xi; R41 N; R50-53	T; N R: 23-41-48/22-50/53 S: (1/2-)26-36/39-45-57-60-61		
613-234-00-9	imidazo[1,2- <i>b</i>]pyridazin hydrochloride		431-510-5	18087-70-2	Xn; R22 Xi; R36	Xn R: 22-36 S: (2-)26		

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613-235-00-4	2,3-dihydro-2,2-dimethyl-1H-perimidine		424-060-6	6364-17-6	Xn; R22-48/22 R43 N; R50-53	Xn; N R: 22-43-48/22-50/53 S: (2-)28-36/37-60-61		
613-236-00-X	2-chloro-3-trifluoromethylpyridine		424-520-6	65753-47-1	T; R24/25-48/25 C; R34 R52-53	T R: 24/25-34-48/25-52/53 S: (1/2-)23-26-36/37/39-45-61		
613-237-00-5	6-trans-butyl-3-(3-dodecylsulfonyl)propyl-7H-1,2,4-triazolo [3.4b][1,3,4]thiadiazine		424-950-4	133949-92-5	R53	R: 53 S: 61		
613-238-00-0	sodium 2-[[4-[(4,6-dichloro-1,3,5-triazin-2-yl)amino]phenyl]sulfonyl]ethyl sulfate		430-890-1	81992-66-7	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)22-24-37-60-61		
613-239-00-6	2-[3-(methylamino)propyl]-1H-benzimidazole		425-760-4	64137-52-6	Xi; R41 R52-53	Xi R: 41-52/53 S: (2-)26-39-61		
613-241-00-7	3-(2H-tetrazol-5-yl)pyridine		426-810-8	3250-74-6	Xi; R41	Xi R: 41 S: (2-)22-26-39		
613-242-00-2	Reaction products of 3,10-bis((2-aminopropyl)amino)-6,13-dichloro-4,11-triphenodioxazine-disulfonic acid with 2-amino-1,4-benzenedisulfonic acid, 2-((4-aminophenyl)sulfonyl)ethyl hydrogen sulfate and 2,4,6-trifluoro-1,3,5-triazine, sodium salts		426-860-0	191877-09-5	Xi; R41	Xi R: 41 S: (2-)22-26-39		
613-243-00-8	4,4'-(1,6-hexamethylenebis(formylimino))bis(2,2,6,6-tetramethyl-1-oxylpiperidine)		427-350-0	182235-14-9	N; R51-53	N R: 51/53 S: 61		
613-244-00-3	5,7-dichloro-4-hydroxyquinoline		427-420-0	21873-52-9	N; R51-53	N R: 51/53 S: 61		

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613-245-00-9	2-fluoro-6-trifluoromethylpyridine		428-100-3	94239-04-0	R10 Xn; R20/22 R52-53	Xn R: 10-20/22-52/53 S: (2-)16-61		
613-246-00-4	2-hydroxymethyl-3-methyl-4-(2,2,2-trifluoroethoxy)pyridine		428-200-7	103577-66-8	R52-53	R: 52/53 S: 61		
613-247-00-X	3-(2-methoxy-4-methoxycarboxybenzyl)-5-nitroindole		428-910-7	107786-36-7	R53	R: 53 S: 61		
613-248-00-5	3,4-dimethyl-1H-pyrazole		429-130-1	2820-37-3	Xn; R22 Xi; R41 R52-53	Xn R: 22-41-52/53 S: (2-)26-39-61		
613-249-00-0	1-(2-hydroxyethyl)-1H-pyrazol-4,5-diylidammoniumsulfate		429-300-3	155601-30-2	Xi; R41 R43 N; R51-53	Xi; N R: 41-43-51/53 S: (2-)24-26-37/39-61		
613-250-00-6	A mixture of: carbonato-bis-N-ethyl-2-isopropyl-1,3-oxazolidine; methyl carbonato-N-ethyl-2-isopropyl-1,3-oxazolidine; 2-isopropyl-N-hydroxyethyl 1,3-oxazolidine		429-990-6	—	Xi; R41 R43 R52-53	Xi R: 41-43-52/53 S: (2-)24-26-37/39-61		
613-251-00-1	(R)-3-[(1-methylpyrrolidin-2-yl)methyl]-5-[2-(phenylsulfonyl)ethenyl]-1H-indole		430-560-5	180637-89-2	Xn; R22-48/22 Xi; R41 R43	Xn R: 22-41-43-48/22 S: (2-)26-36/37/39		
613-253-00-2	2,2-dialkyl-4-hydroxymethyl-1,3-dioxolane; reaction products with ethylene oxide (alkyl is C ₁₋₁₂ and the sum to C ₁₃ , average degree of ethoxylation is 3.5)		430-580-4	—	R19 Xi; R38 N; R51-53	Xi; N R: 19-38-51/53 S: (2-)37-61		
613-254-00-8	forchlorfenuron (ISO); 1-(2-chloro-4-pyridyl)-3-phenylurea		—	68157-60-8	Carc. Cat. 3; R40 N; R51-53	Xn; N R: 40-51/53 S: (2-)36/37-46-61		

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613-255-00-3	A mixture of isomers of: sodium [(2-hydroxyethylsulfamoyl){[2-(2-piperazin-1-ylethylamino)ethylsulfamoyl][2-(4-aminoethylpiperazine-1-yl)ethylsulfamoyl]}(sulfamoyl)}(sulfonatophthalocyaninato)]copper(II)		424-270-8	—	Xi; R41	Xi R: 41 S: (2-)26-39		
613-256-00-9	3'5'-anhydro thymidine		425-810-5	38313-48-3	R52-53	R: 52/53 S: 61		
613-257-00-4	2-phthalimidoethyl N-[4-(2-cyano-4-nitrophenylazo)phenyl]-N-methyl-β-alaninate		426-400-9	170222-39-6	R43 R53	Xi R: 43-53 S: (2-)24-37-61		
613-258-00-X	A mixture of: 4-chloro-7-methylbenzotriazole sodium salt; 4-chloro-5-methylbenzotriazole sodium salt; 5-chloro-4-methylbenzotriazole sodium salt		427-730-6	202420-04-0	C; R34 R52-53	C R: 34-52/53 S: (1/2-)26-28-36/37/39-45-61		
613-259-00-5	A mixture of: [2,4-dioxo-(2-propyn-1-yl)imidazolidin-3-yl]methyl(1R)-cis-chrysanthemate; [2,4-dioxo-(2-propyn-1-yl)imidazolidin-3-yl]methyl(1R)-trans-chrysanthemate		428-790-6	72963-72-5	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61		
613-260-00-0	(±)-4-(3-chlorophenyl)-6-[(4-chlorophenyl)hydroxy(1-methyl-1H-imidazol-5-yl)methyl]-1-methyl-2(1H)-quinolin		430-730-9	—	Xi; R41 N; R50-53	Xi; N R: 41-50/53 S: (2-)22-26-39-60-61		
613-261-00-6	pyrazole-1-carboxamide monohydrochloride		429-520-1	4023-02-3	Xn; R22-48/22 Xi; R41 R43 R52-53	Xn R: 22-41-43-48/22-52/53 S: (2-)22-26-36/37/39-61		
613-262-00-1	disodium (E)-1,2-bis-(4-(4-methylamino-6-(4-methylcarbamoylphenylamino)-1,3,5-triazin-2-ylamino)phenyl-2-sulfonato) ethene		427-310-2	180850-95-7	Xi; R41	Xi R: 41 S: (2-)26-39		

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613-263-00-7	monosodium 3-cyano-5-fluoro-6-hydroxypyridine-2-olate		429-570-2	—	R43	Xi R: 43 S: (2-)24-37		
613-265-00-8	tribenuron methyl (ISO); 2-[4-methoxy-6-methyl-1,3,5-triazin-2-yl(methyl)carbamoylsulfamoyl]benzoic acid		—	101200-48-0	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-46-60-61	C ≥ 1 %: Xi, N; R43-50/53 0,25 % ≤ C < 1 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
613-266-00-3	2-chloro-5-chloromethylthiazole		429-830-5	105827-91-6	T; R24 C; R34 Xn; R22 R43 N; R51-53	T; N R: 22-24-34-43-51/53 S: (1/2-)26-36/37/39-45-61		
613-267-00-9	thiamethoxam (ISO); 3-(2-chloro-thiazol-5-ylmethyl)-5-methyl[1,3,5]oxadiazinan-4-ylidene-N-nitroamine		428-650-4	153719-23-4	Xn; R22 N; R50-53	Xn; N R: 22-50/53 S: (2-)60-61	C ≥ 25 %: Xn, N; R22-50/53 2,5 % ≤ C < 25 %: N; R50/53 0,25 % ≤ C < 2,5 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53	
613-268-00-4	(4aS-cis)-6-benzyl-octahydropyrrolo[3.4-b]pyridine		425-930-8	151213-39-7	C; R34 Xn; R20/22-48/22 N; R51-53	C; N R: 20/22-34-48/22-51/53 S: (1/2-)26-36/37/39-45-61		
613-269-00-X	2-thiazolidinylidenecyanamide		427-720-1	26364-65-8	Xn; R22-48/22 R52-53	Xn R: 22-48/22-52/53 S: (2-)22-36-61		
613-270-00-5	5-amino-N-(2,6-dichloro-3-methylphenyl)-1H-1,2,4-triazole-3-sulfonamide		428-150-6	113171-13-4	R52-53	R: 52/53 S: 61		
613-271-00-0	tritosulfuron (ISO) (containing ≤ 0,02 % AMTT); 1-[4-methoxy-6-(trifluoromethyl)-1,3,5-triazin-2-yl]-3-[2-(trifluoromethyl)benzenesulfonyl]urea (containing ≤ 0,02 % AMTT)		—	142469-14-5	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-46-60-61	C ≥ 2,5 %: Xi, N; R43-50/53 1 % ≤ C < 2,5 %: Xi, N; R43-51/53 0,25 % ≤ C < 1 %: N; R51/53 0,025 % ≤ C < 0,25 %: R52/53	

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613-272-00-6	pyraclostrobin (ISO); methyl N-{2-[1-(4-chlorophenyl)-1H-pyrazol-3-yloxymethyl]phenyl}(N-methoxy)carbamate		—	—	T; R23 Xi; R38 N; R50-53	T; N R: 23-38-50/53 S: (1/2-)45-60-61-63	C ≥ 25 %: T, N; 23-38-50/53 20 % ≤ C < 25 %: Xn, N; R20-38-50/53 3 % ≤ C < 20 %: Xn, N; R20-50/53 0,25 % ≤ C < 3 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
613-273-00-1	tetrahydro-3-methyl-5-((2-phenylthio)thiazol-5-ylmethyl)-[4H]-1,3,5-oxadiazinan-4-ylidene-N-nitroamine		427-600-9	192439-46-6	N; R51-53	N R: 51/53 S: 61		
613-274-00-7	2,6-dichloro-1-fluoropyridinium-tetrafluoroborate		427-400-1	140623-89-8	C; R34 Xn; R22 R43 N; R50-53	C; N R: 22-34-43-50/53 S: (1/2-)26-36/37/39-45-60-61		
613-275-00-2	3-(2-chloroethyl)-6,7,8,9-tetrahydro-2-methyl-4H-pyrido[1,2-a]pyrimidin-4-one monohydrochloride		424-530-0	93076-03-0	T; R25 Xn; R68/21-48/22 Xi; R41 R43 N; R51-53	T; N R: 25-41-43-48/22-68/21-51/53 S: (1/2-)22-26-36/37/39-45-61		
613-276-00-8	1-(2-chlorophenyl)-1,2-dihydro-5H-tetrazol-5-one		426-110-2	98377-35-6	R43 R52-53	Xi R: 43-52/53 S: (2-)24/25-37-61		
613-277-00-3	(4-(6-diethylamino-2-methylpyridin-3-yl)imino-4,5-dihydro-3-methyl-1-(4-methylphenyl)-1H-pyrazol-5-one		427-070-9	—	R53	R: 53 S: 61		
613-278-00-9	(3-aminophenyl)pyridin-3-ylmethanone		428-230-0	79568-06-2	Xn; R48/22 N; R50-53	Xn; N R: 48/22-50/53 S: (2-)22-36-60-61		
613-279-00-4	2-ethyl-2,3-dihydro-2-methyl-1H-perimidine		424-380-6	43057-68-7	Xn; R22-48/22 N; R50-53	Xn; N R: 22-48/22-50/53 S: (2-)36/37-60-61		

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615-033-00-1	Reaction product of diphenylmethanediisocyanate, octylamine, oleylamine and cyclohexylamine (1:1.58:0.32:0.097)		430-980-9	—	R53	R: 53 S: 61		
615-034-00-7	Reaction product of diphenylmethanediisocyanate, octylamine, 4-ethoxyaniline and ethylenediamine (1:0,37:1,53:0,05)		430-750-8	—	R53	R: 53 S: 61		
615-035-00-2	Reaction product of diphenylmethanediisocyanate, octylamine and oleylamine (molar ratio 1:1.86:0.14)		430-930-6	122886-55-9	R53	R: 53 S: 61		
615-036-00-8	Reaction product of diphenylmethanediisocyanate, toluenediisocyanate (mixture of isomers: 65 % 2,4- and 35 % 2,6-diisocyanate), octylamine, oleylamine and 4-ethoxyaniline (molar ratio 4:1:7:1:2)		430-940-0	—	R53	R: 53 S: 61		
615-037-00-3	Reaction product of diphenylmethanediisocyanate, toluenediisocyanate (mixture of isomers: 65 % 2,4- and 35 % 2,6-diisocyanate), octylamine and oleylamine (molar ratio 4:1:9:1)		430-950-5	—	R53	R: 53 S: 61		
615-038-00-9	Reaction product of toluenediisocyanate (mixture of isomers: 65 % 2,4- and 35 % 2,6-diisocyanate) and aniline (molar ratio 1:2)		430-960-1	—	R53	R: 53 S: 61		
615-039-00-4	Reaction product of diphenylmethanediisocyanate, toluenediisocyanate (mixture of isomers: 65 % 2,4- and 35 % 2,6-diisocyanate), octylamine, oleylamine and 4-ethoxyaniline (molar ratio 3.88:1:6.38:0.47:2.91)		430-970-4	—	R53	R: 53 S: 61		
616-107-00-6	cinidon ethyl (ISO); ethyl (Z)-2-chloro-3-[2-chloro-5-(cyclohex-1-ene-1,2-dicarboximido)phenyl]acrylate		—	142891-20-1	Carc. Cat. 3; R40 R43 N; R50-53	Xn; N R: 40-43-50/53 S: (2-)24-37-46-60-61		

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616-122-00-8	methyl neodecanamide		414-460-9	105726-67-8	Xn; R22	Xn R: 22 S: (2-)		
616-131-00-7	1-aminocyclopentanecarboxamide		422-950-9	17193-28-1	T; R48/25 Xn; R22 Xi; R41	T R: 22-41-48/25 S: (1/2-)22-26-36/39-45		
616-136-00-4	Reaction product of cocoalkyl-diethanolamides and cocoalkyl-monoglycerides and molybdenumtrioxide (1.75-2.2: 0.75-1.0:0.1-1.1)		430-380-7	—	N; R51-53	N R: 51/53 S: 61		
616-137-00-X	4-dichloroacetyl-1-oxa-4-azaspiro[4.5]decane		401-130-4	71526-07-3	R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
616-138-00-5	benzoic acid, <i>N</i> - <i>trans</i> -butyl- <i>N'</i> -(4-chlorobenzoyl)hydrazide		431-600-4	112226-61-6	R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)24-37-61		
616-139-00-0	(3 <i>S</i> ,4 <i>aS</i> ,8 <i>aS</i>)- <i>N</i> - <i>trans</i> -butyldecahydro-3-isoquinolinecarboxamide		420-380-5	136465-81-1	Xn; R22 Xi; R41 R52-53	Xn R: 22-41-52/53 S: (2-)22-26-39-61		
616-140-00-6	<i>N,N'</i> -(methylenedi-4,1-phenylene)bis[<i>N'</i> -(4-methylphenyl)urea]		429-380-1	133336-92-2	R43 R53	Xi R: 43-53 S: (2-)24-37-61		
616-141-00-1	zoxamide (ISO); (<i>RS</i>)-3,5-dichloro- <i>N</i> -(3-chloro-1-ethyl-1-methyl-2-oxopropyl)- <i>p</i> -toluamide		—	156052-68-5	R43 N; R50-53	Xi; N R: 43-50/53 S: (2-)24-37-46-60-61	$C \geq 2,5\%$: Xi, N; R43-50/53 $1\% \leq C < 2,5\%$: Xi, N; R43-51/53 $0,25\% \leq C < 1\%$: N; R51/53 $0,025\% \leq C < 0,25\%$: R52/53	
616-144-00-8	3,4-dichloro- <i>N</i> -[5-chloro-4-[2-[4-dodecyloxyphenylsulfonyl]butyramido]-2-hydroxyphenyl]benzamide		431-130-1	—	R53	R: 53 S: 61		

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Index No	Chemical name	Notes related to substances	EC No	CAS No	Classification	Labelling	Concentration Limits	Notes related to preparations
616-145-00-3	pethoxamide (ISO); 2-chloro-N-(2-ethoxyethyl)-N-(2-methyl-1-phenylprop-1-enyl)acetamide		—	106700-29-2	Xn; R22 R43 N; R50-53	Xn; N R: 22-43-50/53 S: (2-)24-37-46-60-61	C ≥ 25 %: Xn, N; R22-43-50/53 1 % ≤ C < 25 %: Xi, N; R43-50/53 0,25 % ≤ C < 1 %: N; R50/53 0,025 % ≤ C < 0,25 %: N; R51/53 0,0025 % ≤ C < 0,025 %: R52/53	
616-146-00-9	N-(2-methoxy-5-octadecanoylamino-phenyl)-2-(3-benzyl-2,5-dioximidazolidin-1-yl)-4,4-dimethyl-3-oxopentanoic acidamide		431-330-7	142776-95-2	R53	R: 53 S: 22-61		
616-147-00-4	1-methyl-4-(2-methyl-2H-tetrazol-5-yl)-1H-pyrazole-5-sulfonamide		424-160-1	139481-22-4	Xn; R22 R52-53	Xn R: 22-52/53 S: (2-)61		
616-148-00-X	N-[6,9-dihydro-9-[[2-hydroxy-1-(hydroxymethyl)ethoxy]methyl]-6-oxo-1H-purin-2-yl]acetamide		424-550-1	84245-12-5	Carc. Cat. 2; R45 Muta. Cat. 2; R46 Repr. Cat. 2; R60-61	T R: 45-46-60-61 S: 53-45		
616-150-00-0	(2R,3S)-N-(3-amino-2-hydroxy-4-phenylbutyl)-N-isobutyl-4-nitrobenzenesulfonamide hydrochloride		425-260-6	—	Xn; R48/22 Xi; R41 R43 N; R51-53	Xn; N R: 41-43-48/22-51/53 S: (2-)22-26-36/37/39-61		
616-151-00-6	N-(2-amino-4,6-dichloropyrimidin-5-yl)formamide		425-650-6	171887-03-9	Xn; R22 Xi; R41 R43 R52-53	Xn R: 22-41-43-52/53 S: (2-)24-26-37/39-61		
616-152-00-1	4-(4-fluorophenyl)-2-(2-methyl-1-oxopropyl)-4-oxo-3,N-diphenylbutanamide		425-850-3	125971-96-2	R53	R: 53 S: 61		
616-153-00-7	4-methyl-3-oxo-N-phenyl-2-(phenylmethylene)pentanamide		425-860-8	125971-57-5	R43 N; R51-53	Xi; N R: 43-51/53 S: (2-)22-24-37-61		
616-154-00-2	3,4-dichloro-N-[5-chloro-4-[2-[4-(hexadecyloxy)phenylsulfonyl]butyramido]-2-hydroxyphenyl]benzamide		431-110-0	—	R53	R: 53 S: 61		

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616-155-00-8	N,N,N',N'-tetracyclohexyl-1,3-benzenedicarboxamide		431-040-0	104560-40-9	N; R50-53	N R: 50/53 S: 60-61		
616-156-00-3	6-(2-chloro-6-cyano-4-nitrophenylazo)-4-methoxy-3-[N-(methoxycarbonylmethyl)-N-(1-methoxycarbonylethyl)amino]acetanilide		430-500-8	204277-61-2	R53	R: 53 S: 61		
616-157-00-9	3-amino-4-hydroxy-N-(3-isopropoxypropyl)benzenesulfonamide hydrochloride		427-780-9	114565-70-7	Xn; R22 Xi; R41 N; R50-53	Xn; N R: 22-41-50/53 S: (2-)26-39-60-61		
616-158-00-4	N-[4-cyano-3-trifluoromethylphenyl]methacrylamide		427-880-2	90357-53-2	Xn; R48/22 N; R51-53	Xn; N R: 48/22-51/53 S: (2-)36-61		
616-160-00-5	2,2'-azobis[N-(2-hydroxyethyl)-2-methylpropionamide]		429-090-3	61551-69-7	R43 R52-53	Xi R: 43-52/53 S: (2-)12-15-24-37-61		
616-161-00-0	2,4-dichloro-5-hydroxyacetanilide		429-110-0	67669-19-6	R52-53	R: 52/53 S: 61		
616-162-00-6	isostearic acid monoisopropanoamide		431-540-9	—	Xi; R38 N; R51-53	Xi; N R: 38-51/53 S: (2-)37-61		
616-163-00-1	4,4'-methylenebis[N-(4-chlorophenyl)-3-hydroxynaphthalene-2-carboxamide]		430-350-3	192463-88-0	R53	R: 53 S: 61		
617-021-00-1	methylethylketone peroxide trimer		429-320-2	—	E; R2 O; R7 Xn; R65 Xi; R38 R43	E; Xn R: 2-7-38-43-65 S: (2-)3/7-14-23-36/37/39-62		4

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ANNEX 1H

The entries in Annex I with the following entry numbers are deleted:

607-443-00-4, 607-472-00-2, and 606-080-00-9.

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