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- ★ **Commission Regulation (EU) No 758/2013 of 7 August 2013 correcting Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures <sup>(1)</sup> ..... 1**

Price: EUR 4

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<sup>(1)</sup> Text with EEA relevance

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Acts whose titles are printed in light type are those relating to day-to-day management of agricultural matters, and are generally valid for a limited period.

The titles of all other acts are printed in bold type and preceded by an asterisk.



## II

*(Non-legislative acts)*

## REGULATIONS

## COMMISSION REGULATION (EU) No 758/2013

of 7 August 2013

**correcting Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures****(Text with EEA relevance)**

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 <sup>(1)</sup>, and in particular Article 53 thereof,

Whereas:

- (1) Verification has revealed errors in Annexes I, II, IV and V to Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures <sup>(2)</sup>. Those errors should therefore be corrected.
- (2) The corrected harmonised classification and labelling of substances should apply from the day of the entry into force of this Regulation. Suppliers should not be required to relabel and repackage substances and mixtures already placed on the market in accordance with Regulation (EC) No 1272/2008, before the entry into force of this Regulation. Suppliers should nevertheless have the possibility of applying the provisions of this Regulation to substances and mixtures already placed on the market on a voluntary basis.
- (3) The measures provided for in this Regulation are in accordance with the opinion of the Committee established under Article 133 of Regulation (EC) No 1907/2006 of the European Parliament and of the

Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC <sup>(3)</sup>,

HAS ADOPTED THIS REGULATION:

*Article 1*

In Part 3 of Annex VI to Regulation (EC) No 1272/2008, the entries in Table 3.1, as amended by Annexes I and II to Regulation (EC) No 790/2009, corresponding to the entries set out in Annex I to this Regulation are replaced by the entries set out in that Annex.

*Article 2*

In Part 3 of Annex VI to Regulation (EC) No 1272/2008, the entries in Table 3.2, as amended by Annexes IV and V to Regulation (EC) No 790/2009, corresponding to the entries set out in Annex II to this Regulation are replaced by the entries set out in that Annex.

*Article 3*

The entries set out in Annex III to this Regulation are added to Table 3.1 in Part 3 of Annex VI to Regulation (EC) No 1272/2008.

*Article 4*

The entries set out in Annex IV to this Regulation are added to Table 3.2 in Part 3 of Annex VI to Regulation (EC) No 1272/2008.

*Article 5*

Suppliers are not required to relabel or repackage substances listed in the annexes to this Regulation, or substances or mixtures containing them, that they have already placed on the market in accordance with Regulation (EC) No 1272/2008 before entry into force of this Regulation.

<sup>(1)</sup> OJ L 353, 31.12.2008, p. 1.

<sup>(2)</sup> OJ L 235, 5.9.2009, p. 1.

<sup>(3)</sup> OJ L 136, 29.5.2007, p. 3.

*Article 6*

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

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 7 August 2013.

*For the Commission*  
*The President*  
José Manuel BARROSO

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## ANNEX I

| Index No      | International Chemical Identification                                                                                                                                      | EC No                          | CAS No                           | Classification                                                                                                                             |                                                                          | Labelling                               |                                                                  |                                 | Specific Conc. Limits, M-factors                                                                                                               | Notes |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|               |                                                                                                                                                                            |                                |                                  | Hazard Class and Category Code(s)                                                                                                          | Hazard Statement Code(s)                                                 | Pictogram, Signal Word Code(s)          | Hazard statement Code(s)                                         | Suppl. Hazard statement Code(s) |                                                                                                                                                |       |
| '005-006-00-7 | dibutyltin hydrogen borate                                                                                                                                                 | 401-040-5                      | 75113-37-0                       | Repr. 1B<br>Muta. 2<br>STOT RE 1<br>Acute Tox. 4 *<br>Acute Tox. 4 *<br>Eye Dam. 1<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1 | H360FD<br>H341<br>H372**<br>H312<br>H302<br>H318<br>H317<br>H400<br>H410 | GHS05<br>GHS08<br>GHS07<br>GHS09<br>Dgr | H360FD<br>H341<br>H372**<br>H312<br>H302<br>H318<br>H317<br>H410 |                                 |                                                                                                                                                |       |
| 005-007-00-2  | boric acid; [1]<br>boric acid; [2]                                                                                                                                         | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] | Repr. 1B                                                                                                                                   | H360FD                                                                   | GHS08<br>Dgr                            | H360FD                                                           |                                 | Repr. 1B; H360FD:<br>C ≥ 5,5 %                                                                                                                 |       |
| 005-017-00-7  | sodium perborate; [1]<br>sodium peroxometaborate; [2]<br>sodium peroxoborate;<br>[containing < 0,1 % (w/w) of particles<br>with an aerodynamic diameter of below<br>50 µm] | 239-172-9 [1]<br>231-556-4 [2] | 15120-21-5 [1]<br>7632-04-4 [2]  | Ox. Sol. 2<br>Repr. 1B<br>Acute Tox. 4 *<br>STOT SE 3<br>Eye Dam. 1                                                                        | H272<br>H360Df<br>H302<br>H335<br>H318                                   | GHS03<br>GHS05<br>GHS08<br>GHS07<br>Dgr | H272<br>H360Df<br>H302<br>H335<br>H318                           |                                 | Repr. 1B; H360Df:<br>C ≥ 9 %<br>Repr. 1B; H360D:<br>6,5 % ≤ C < 9 %<br>Eye Dam. 1; H318:<br>C ≥ 22 %<br>Eye Irrit. 2; H319:<br>14 % ≤ C < 22 % |       |
| 005-017-01-4  | sodium perborate; [1]<br>sodium peroxometaborate; [2]<br>sodium peroxoborate;<br>[containing ≥ 0,1 % (w/w) of particles<br>with an aerodynamic diameter of below<br>50 µm] | 239-172-9 [1]<br>231-556-4 [2] | 15120-21-5 [1]<br>7632-04-4 [2]  | Ox. Sol. 2<br>Repr. 1B<br>Acute Tox. 3 *<br>Acute Tox. 4 *<br>STOT SE 3<br>Eye Dam. 1                                                      | H272<br>H360Df<br>H331<br>H302<br>H335<br>H318                           | GHS03<br>GHS06<br>GHS05<br>GHS08<br>Dgr | H272<br>H360Df<br>H331<br>H302<br>H335<br>H318                   |                                 | Repr. 1B; H360Df:<br>C ≥ 9 %<br>Repr. 1B; H360D:<br>6,5 % ≤ C < 9 %<br>Eye Dam. 1; H318:<br>C ≥ 22 %<br>Eye Irrit. 2; H319:<br>14 % ≤ C < 22 % |       |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                              | EC No                                           | CAS No                                             | Classification                                                                        |                                                | Labelling                               |                                                |                                 | Specific Conc. Limits, M-factors                                                                                                                | Notes |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------|------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|              |                                                                                                                                                                                                                                                                                                                                                    |                                                 |                                                    | Hazard Class and Category Code(s)                                                     | Hazard Statement Code(s)                       | Pictogram, Signal Word Code(s)          | Hazard statement Code(s)                       | Suppl. Hazard statement Code(s) |                                                                                                                                                 |       |
| 005-018-00-2 | perboric acid (H <sub>3</sub> BO <sub>2</sub> (O <sub>2</sub> )), mono-sodium salt trihydrate; [1]<br>perboric acid, sodium salt, tetrahydrate; [2]<br>perboric acid (HBO(O <sub>2</sub> )), sodium salt, tetrahydrate [3]<br>sodium peroxoborate hexahydrate; [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm] | 239-172-9 [1]<br>234-390-0 [2]<br>231-556-4 [3] | 13517-20-9 [1]<br>37244-98-7 [2]<br>10486-00-7 [3] | Repr. 1B<br>STOT SE 3<br>Eye Dam. 1                                                   | H360Df<br>H335<br>H318                         | GHS05<br>GHS08<br>GHS07<br>Dgr          | H360Df<br>H335<br>H318                         |                                 | Repr. 1B; H360Df:<br>C ≥ 14 %<br>Repr. 1B; H360D:<br>10 % ≤ C < 14 %<br>Eye Dam. 1; H318:<br>C ≥ 36 %<br>Eye Irrit. 2; H319:<br>22 % ≤ C < 36 % |       |
| 005-019-00-8 | perboric acid, sodium salt; [1]<br>perboric acid, sodium salt, monohydrate; [2]<br>perboric acid (HBO(O <sub>2</sub> )), sodium salt, monohydrate; [3]<br>sodium peroxoborate; [containing < 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]                                                                                 | 234-390-0 [1]<br>234-390-0 [2]<br>231-556-4 [3] | 11138-47-9 [1]<br>12040-72-1 [2]<br>10332-33-9 [3] | Ox. Sol. 3<br>Repr. 1B<br>Acute Tox. 4 *<br>STOT SE 3<br>Eye Dam. 1                   | H272<br>H360Df<br>H302<br>H335<br>H318         | GHS03<br>GHS05<br>GHS08<br>GHS07<br>Dgr | H272<br>H360Df<br>H302<br>H335<br>H318         |                                 | Repr. 1B; H360Df:<br>C ≥ 9 %<br>Repr. 1B; H360D:<br>6,5 % ≤ C < 9 %<br>Eye Dam. 1; H318:<br>C ≥ 22 %<br>Eye Irrit. 2; H319:<br>14 % ≤ C < 22 %  |       |
| 005-019-01-5 | perboric acid, sodium salt; [1]<br>perboric acid, sodium salt, monohydrate; [2]<br>perboric acid (HBO(O <sub>2</sub> )), sodium salt, monohydrate [3]<br>sodium peroxoborate; [containing ≥ 0,1 % (w/w) of particles with an aerodynamic diameter of below 50 µm]                                                                                  | 234-390-0 [1]<br>234-390-0 [2]<br>231-556-4 [3] | 11138-47-9 [1]<br>12040-72-1 [2]<br>10332-33-9 [3] | Ox. Sol. 3<br>Repr. 1B<br>Acute Tox. 3 *<br>Acute Tox. 4 *<br>STOT SE 3<br>Eye Dam. 1 | H272<br>H360Df<br>H331<br>H302<br>H335<br>H318 | GHS03<br>GHS06<br>GHS05<br>GHS08<br>Dgr | H272<br>H360Df<br>H331<br>H302<br>H335<br>H318 |                                 | Repr. 1B; H360Df:<br>C ≥ 9 %<br>Repr. 1B; H360D:<br>6,5 % ≤ C < 9 %<br>Eye Dam. 1; H318:<br>C ≥ 22 %<br>Eye Irrit. 2; H319:<br>14 % ≤ C < 22 %  |       |
| 006-015-00-9 | diuron (ISO);<br>3-(3,4-dichlorophenyl)-1,1-dimethylurea                                                                                                                                                                                                                                                                                           | 206-354-4                                       | 330-54-1                                           | Carc. 2<br>Acute Tox. 4 *<br>STOT RE 2 *<br>Aquatic Acute 1<br>Aquatic Chronic 1      | H351<br>H302<br>H373**<br>H400<br>H410         | GHS08<br>GHS07<br>GHS09<br>Wng          | H351<br>H302<br>H373**<br>H410                 |                                 | M = 10                                                                                                                                          |       |

| Index No     | International Chemical Identification                                                                                                                                            | EC No     | CAS No      | Classification                                                                                                                           |                                                                | Labelling                      |                                                        |                                 | Specific Conc. Limits, M-factors | Notes |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------|--------------------------------------------------------|---------------------------------|----------------------------------|-------|
|              |                                                                                                                                                                                  |           |             | Hazard Class and Category Code(s)                                                                                                        | Hazard Statement Code(s)                                       | Pictogram, Signal Word Code(s) | Hazard statement Code(s)                               | Suppl. Hazard statement Code(s) |                                  |       |
| 006-087-00-1 | furathiocarb (ISO);<br>2,3-dihydro-2,2-dimethyl-7-benzofuryl<br>2,4-dimethyl-6-oxa-5-oxo-3-thia-2,4-diazadecanoate                                                               | 265-974-3 | 65907-30-4  | Acute Tox. 2 *<br>Acute Tox. 3 *<br>STOT RE 2 *<br>Eye Irrit. 2<br>Skin Irrit. 2<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1 | H330<br>H301<br>H373**<br>H319<br>H315<br>H317<br>H400<br>H410 | GHS06<br>GHS08<br>GHS09<br>Dgr | H330<br>H301<br>H373**<br>H319<br>H315<br>H317<br>H410 |                                 | M = 100                          |       |
| 006-098-00-1 | <i>tert</i> -butyl (1R,5S)-3-azabicyclo<br>[3.1.0]hex-6-ylcarbamate                                                                                                              | 429-170-8 | 134575-17-0 | Acute Tox. 4 *<br>STOT RE 2 *<br>Eye Dam. 1<br>Skin Sens. 1                                                                              | H302<br>H373**<br>H318<br>H317                                 | GHS05<br>GHS08<br>GHS07<br>Dgr | H302<br>H373**<br>H318<br>H317                         |                                 |                                  |       |
| 007-007-00-8 | ethyl nitrate                                                                                                                                                                    | 210-903-3 | 625-58-1    | Unst. Expl.                                                                                                                              | H200                                                           | GHS01<br>Dgr                   | H200                                                   |                                 |                                  |       |
| 014-043-00-8 | reaction product of amorphous silica<br>(50-85 %), butyl (1-methylpropyl)<br>magnesium (3-15 %), tetraethyl ortho-<br>silicate (5-15 %) and titanium tetra-<br>chloride (5-20 %) | 432-200-2 | —           | STOT SE 3<br>Skin Irrit. 2<br>Eye Dam. 1<br>Aquatic<br>Chronic 3                                                                         | H335<br>H315<br>H318<br>H412                                   | GHS05<br>GHS07<br>Dgr          | H335<br>H315<br>H318<br>H412                           |                                 |                                  |       |
| 015-114-00-6 | chlormephos (ISO);<br>S-chloromethyl O,O-diethyl phospho-<br>rodithioate                                                                                                         | 246-538-1 | 24934-91-6  | Acute Tox. 1<br>Acute Tox. 2 *<br>Aquatic Acute 1<br>Aquatic<br>Chronic 1                                                                | H310<br>H300<br>H400<br>H410                                   | GHS06<br>GHS09<br>Dgr          | H310<br>H300<br>H410                                   |                                 | M = 10                           |       |
| 015-115-00-1 | chlorthiophos (ISO);<br>[isomeric reaction mass in which O-<br>2,5-dichlorophenyl-4-methylthiophenyl<br>O,O-diethyl phosphorothioate<br>predominates]                            | 244-663-6 | 21923-23-9  | Acute Tox. 2 *<br>Acute Tox. 3 *<br>Aquatic Acute 1<br>Aquatic<br>Chronic 1                                                              | H300<br>H311<br>H400<br>H410                                   | GHS06<br>GHS09<br>Dgr          | H300<br>H311<br>H410                                   |                                 | M = 1000                         |       |

| Index No     | International Chemical Identification                                                                                                                                                                      | EC No     | CAS No     | Classification                                                                                             |                                              | Labelling                               |                                              |                                 | Specific Conc. Limits, M-factors                                                                                                                                   | Notes |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------|----------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|              |                                                                                                                                                                                                            |           |            | Hazard Class and Category Code(s)                                                                          | Hazard Statement Code(s)                     | Pictogram, Signal Word Code(s)          | Hazard statement Code(s)                     | Suppl. Hazard statement Code(s) |                                                                                                                                                                    |       |
| 015-182-00-7 | tetrapropan-2-yl (dichloromethane-diyl)bis(phosphonate)                                                                                                                                                    | 430-630-5 | 10596-22-2 | Acute Tox. 4 *<br>Eye Irrit. 2<br>Skin Sens. 1                                                             | H302<br>H319<br>H317                         | GHS07<br>Wng                            | H302<br>H319<br>H317                         |                                 |                                                                                                                                                                    |       |
| 016-092-00-0 | reaction mass of: 4,7-bis(mercaptomethyl)-3,6,9-trithia-1,11-undecanedithiol;<br>4,8-bis(mercaptomethyl)-3,6,9-trithia-1,11-undecanedithiol;<br>5,7-bis(mercaptomethyl)-3,6,9-trithia-1,11-undecanedithiol | 427-050-1 | —          | Repr. 2<br>Skin Irrit. 2<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1                           | H361f<br>H315<br>H317<br>H400<br>H410        | GHS08<br>GHS07<br>GHS09<br>Wng          | H361f<br>H315<br>H317<br>H410                |                                 |                                                                                                                                                                    |       |
| 017-001-00-7 | chlorine                                                                                                                                                                                                   | 231-959-5 | 7782-50-5  | Ox. Gas 1<br>Press. Gas<br>Acute Tox. 3 *<br>Eye Irrit. 2<br>STOT SE 3<br>Skin Irrit. 2<br>Aquatic Acute 1 | H270<br>H331<br>H319<br>H335<br>H315<br>H400 | GHS03<br>GHS04<br>GHS06<br>GHS09<br>Dgr | H270<br>H331<br>H319<br>H335<br>H315<br>H400 |                                 | M = 100                                                                                                                                                            | U     |
| 017-012-00-7 | calcium hypochlorite                                                                                                                                                                                       | 231-908-7 | 7778-54-3  | Ox. Sol. 2<br>Acute Tox. 4 *<br>Skin Corr. 1B<br>Aquatic Acute 1                                           | H272<br>H302<br>H314<br>H400                 | GHS03<br>GHS05<br>GHS07<br>GHS09<br>Dgr | H272<br>H302<br>H314<br>H400                 | EUH031                          | Skin Corr. 1B; H314:<br>C ≥ 5 %<br>Skin Irrit. 2; H315:<br>1 % ≤ C < 5 %<br>Eye Dam. 1; H318:<br>3 % ≤ C < 5 %<br>Eye Irrit. 2; H319:<br>0,5 % ≤ C < 3 %<br>M = 10 | T     |
| 022-004-00-1 | potassium titanium oxide (K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> )                                                                                                                                 | 432-240-0 | 12056-51-8 | Carc. 2                                                                                                    | H351                                         | GHS08<br>Wng                            | H351                                         |                                 |                                                                                                                                                                    |       |

| Index No     | International Chemical Identification | EC No     | CAS No     | Classification                                                                                                                                                                                              |                                                                                                          | Labelling                                        |                                                                                                  |                                 | Specific Conc. Limits, M-factors                                                                     | Notes |
|--------------|---------------------------------------|-----------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------|-------|
|              |                                       |           |            | Hazard Class and Category Code(s)                                                                                                                                                                           | Hazard Statement Code(s)                                                                                 | Pictogram, Signal Word Code(s)                   | Hazard statement Code(s)                                                                         | Suppl. Hazard statement Code(s) |                                                                                                      |       |
| 024-004-00-7 | sodium dichromate                     | 234-190-3 | 10588-01-9 | Ox. Sol. 2<br>Carc. 1B<br>Muta. 1B<br>Repr. 1B<br>Acute Tox. 2 *<br>Acute Tox. 3 *<br>Acute Tox. 4 *<br>STOT RE 1<br>Skin Corr. 1B<br>Resp. Sens. 1<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1 | H272<br>H350<br>H340<br>H360FD<br>H330<br>H301<br>H312<br>H372**<br>H314<br>H334<br>H317<br>H400<br>H410 | GHS03<br>GHS06<br>GHS05<br>GHS08<br>GHS09<br>Dgr | H272<br>H350<br>H340<br>H360FD<br>H330<br>H301<br>H312<br>H372**<br>H314<br>H334<br>H317<br>H410 |                                 | Resp. Sens. 1; H334:<br>C ≥ 0,2 %<br>Skin Sens. 1; H317:<br>C ≥ 0,2 %<br>STOT SE 3; H335:<br>C ≥ 5 % | 3     |
| 027-006-00-6 | cobalt di(acetate)                    | 200-755-8 | 71-48-7    | Carc. 1B<br>Muta. 2<br>Repr. 1B<br>Resp. Sens. 1<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1                                                                                                    | H350i<br>H341<br>H360F***<br>H334<br>H317<br>H400<br>H410                                                | GHS08<br>GHS09<br>Dgr                            | H350i<br>H341<br>H360F***<br>H334<br>H317<br>H410                                                |                                 | Carc. 1B; H350i:<br>C ≥ 0,01 %<br>M = 10                                                             | 1     |
| 027-009-00-2 | cobalt dinitrate                      | 233-402-1 | 10141-05-6 | Carc. 1B<br>Muta. 2<br>Repr. 1B<br>Resp. Sens. 1<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1                                                                                                    | H350i<br>H341<br>H360F***<br>H334<br>H317<br>H400<br>H410                                                | GHS08<br>GHS09<br>Dgr                            | H350i<br>H341<br>H360F***<br>H334<br>H317<br>H410                                                |                                 | Carc. 1B; H350i:<br>C ≥ 0,01 %<br>M = 10                                                             | 1     |

| Index No     | International Chemical Identification                 | EC No                          | CAS No                           | Classification                                                                                                                                                             |                                                                                             | Labelling                                        |                                                                                     |                                 | Specific Conc. Limits, M-factors                                                                                                                     | Notes |
|--------------|-------------------------------------------------------|--------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|              |                                                       |                                |                                  | Hazard Class and Category Code(s)                                                                                                                                          | Hazard Statement Code(s)                                                                    | Pictogram, Signal Word Code(s)                   | Hazard statement Code(s)                                                            | Suppl. Hazard statement Code(s) |                                                                                                                                                      |       |
| 028-009-00-5 | nickel sulfate                                        | 232-104-9                      | 7786-81-4                        | Carc. 1A<br>Muta. 2<br>Repr. 1B<br>STOT RE 1<br>Acute Tox. 4 *<br>Acute Tox. 4 *<br>Skin Irrit. 2<br>Resp. Sens. 1<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1 | H350i<br>H341<br>H360D***<br>H372**<br>H332<br>H302<br>H315<br>H334<br>H317<br>H400<br>H410 | GHS08<br>GHS07<br>GHS09<br>Dgr                   | H350i<br>H341<br>H360D***<br>H372**<br>H332<br>H302<br>H315<br>H334<br>H317<br>H410 |                                 | STOT RE 1; H372:<br>C ≥ 1 %<br>STOT RE 2; H373:<br>0,1 % ≤ C < 1 %<br>Skin Irrit. 2; H315:<br>C ≥ 20 %<br>Skin Sens. 1; H317:<br>C ≥ 0,01 %<br>M = 1 |       |
| 028-011-00-6 | nickel dichloride                                     | 231-743-0                      | 7718-54-9                        | Carc. 1A<br>Muta. 2<br>Repr. 1B<br>Acute Tox. 3 *<br>Acute Tox. 3 *<br>STOT RE 1<br>Skin Irrit. 2<br>Resp. Sens. 1<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1 | H350i<br>H341<br>H360D***<br>H331<br>H301<br>H372**<br>H315<br>H334<br>H317<br>H400<br>H410 | GHS06<br>GHS08<br>GHS09<br>Dgr                   | H350i<br>H341<br>H360D***<br>H331<br>H301<br>H372**<br>H315<br>H334<br>H317<br>H410 |                                 | STOT RE 1; H372:<br>C ≥ 1 %<br>STOT RE 2; H373:<br>0,1 % < C < 1 %<br>Skin Irrit. 2; H315:<br>C ≥ 20 %<br>Skin Sens. 1; H317:<br>C ≥ 0,01 %<br>M = 1 |       |
| 028-012-00-1 | nickel dinitrate; [1]<br>nitric acid, nickel salt [2] | 236-068-5 [1]<br>238-076-4 [2] | 13138-45-9 [1]<br>14216-75-2 [2] | Ox. Sol. 2<br>Carc. 1A<br>Muta. 2<br>Repr. 1B<br>STOT RE 1<br>Acute Tox. 4 *                                                                                               | H272<br>H350i<br>H341<br>H360D***<br>H372**<br>H332                                         | GHS03<br>GHS05<br>GHS08<br>GHS07<br>GHS09<br>Dgr | H272<br>H350i<br>H341<br>H360D***<br>H372**<br>H332                                 |                                 | STOT RE 1; H372:<br>C ≥ 1 %<br>STOT RE 2; H373:<br>0,1 % < C < 1 %<br>Skin Irrit. 2; H315:<br>C ≥ 20 %                                               |       |

| Index No     | International Chemical Identification                                                | EC No                          | CAS No                         | Classification                                                                                                                                            |                                                                                     | Labelling                      |                                                                             |                                 | Specific Conc. Limits, M-factors                                                                                                                        | Notes  |
|--------------|--------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|              |                                                                                      |                                |                                | Hazard Class and Category Code(s)                                                                                                                         | Hazard Statement Code(s)                                                            | Pictogram, Signal Word Code(s) | Hazard statement Code(s)                                                    | Suppl. Hazard statement Code(s) |                                                                                                                                                         |        |
|              |                                                                                      |                                |                                | Acute Tox. 4 *<br>Skin Irrit. 2<br>Eye Dam. 1<br>Resp. Sens. 1<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1                                    | H302<br>H315<br>H318<br>H334<br>H317<br>H400<br>H410                                |                                | H302<br>H315<br>H318<br>H334<br>H317<br>H410                                |                                 | Skin Sens. 1; H317:<br>C ≥ 0,01 %<br>M = 1                                                                                                              |        |
| 028-022-00-6 | nickel di(acetate); [1]<br>nickel acetate [2]                                        | 206-761-7 [1]<br>239-086-1 [2] | 373-02-4 [1]<br>14998-37-9 [2] | Carc. 1A<br>Muta. 2<br>Repr. 1B<br>STOT RE 1<br>Acute Tox. 4 *<br>Acute Tox. 4 *<br>Resp. Sens. 1<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1 | H350i<br>H341<br>H360D***<br>H372**<br>H332<br>H302<br>H334<br>H317<br>H400<br>H410 | GHS08<br>GHS07<br>GHS09<br>Dgr | H350i<br>H341<br>H360D***<br>H372**<br>H332<br>H302<br>H334<br>H317<br>H410 |                                 | STOT RE 1; H372:<br>C ≥ 1 %<br>STOT RE 2; H373:<br>0,1 % ≤ C < 1 %<br>Skin Sens. 1; H317:<br>C ≥ 0,01 %<br>M = 1                                        |        |
| 028-052-00-X | nickel barium titanium primrose priderite;<br>C.I. Pigment Yellow 157;<br>C.I. 77900 | 271-853-6                      | 68610-24-2                     | Carc. 1A<br>STOT RE 1<br>Skin Sens. 1                                                                                                                     | H350i<br>H372**<br>H317                                                             | GHS08<br>GHS07<br>Dgr          | H350i<br>H372**<br>H317                                                     |                                 |                                                                                                                                                         |        |
| 050-008-00-3 | tributyltin compounds, with the exception of those specified elsewhere in this Annex | —                              | —                              | Acute Tox. 3 *<br>Acute Tox. 4 *<br>STOT RE 1<br>Eye Irrit. 2<br>Skin Irrit. 2<br>Aquatic Acute 1<br>Aquatic Chronic 1                                    | H301<br>H312<br>H372**<br>H319<br>H315<br>H400<br>H410                              | GHS06<br>GHS08<br>GHS09<br>Dgr | H301<br>H312<br>H372**<br>H319<br>H315<br>H410                              |                                 | *<br>STOT RE 1; H372:<br>C ≥ 1 %<br>STOT RE 2; H373:<br>0,25 % ≤ C < 1 %<br>Skin Irrit. 2; H315:<br>C ≥ 1 %<br>Eye Irrit. 2; H319:<br>C ≥ 1 %<br>M = 10 | A<br>1 |

| Index No     | International Chemical Identification                            | EC No     | CAS No     | Classification                                                                                                    |                                                      | Labelling                               |                                                      |                                 | Specific Conc. Limits, M-factors | Notes |
|--------------|------------------------------------------------------------------|-----------|------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------|------------------------------------------------------|---------------------------------|----------------------------------|-------|
|              |                                                                  |           |            | Hazard Class and Category Code(s)                                                                                 | Hazard Statement Code(s)                             | Pictogram, Signal Word Code(s)          | Hazard statement Code(s)                             | Suppl. Hazard statement Code(s) |                                  |       |
| 603-023-00-X | ethylene oxide;<br>oxirane                                       | 200-849-9 | 75-21-8    | Press. Gas<br>Flam. Gas 1<br>Carc. 1B<br>Muta. 1B<br>Acute Tox. 3 *<br>Eye Irrit. 2<br>STOT SE 3<br>Skin Irrit. 2 | H220<br>H350<br>H340<br>H331<br>H319<br>H335<br>H315 | GHS02<br>GHS04<br>GHS06<br>GHS08<br>Dgr | H220<br>H350<br>H340<br>H331<br>H319<br>H335<br>H315 |                                 |                                  | U     |
| 603-194-00-0 | 2-(2-aminoethylamino)ethanol;<br>(AEEA)                          | 203-867-5 | 111-41-1   | Repr. 1B<br>Skin Corr. 1B<br>Skin Sens. 1                                                                         | H360Df<br>H314<br>H317                               | GHS05<br>GHS08<br>GHS07<br>Dgr          | H360Df<br>H314<br>H317                               |                                 | STOT SE 3; H335:<br>C ≥ 5 %      |       |
| 604-030-00-0 | bisphenol A;<br>4,4'-isopropylidenediphenol                      | 201-245-8 | 80-05-7    | Repr. 2<br>STOT SE 3<br>Eye Dam. 1<br>Skin Sens. 1                                                                | H361f***<br>H335<br>H318<br>H317                     | GHS05<br>GHS08<br>GHS07<br>Dgr          | H361f***<br>H335<br>H318<br>H317                     |                                 |                                  |       |
| 604-076-00-1 | phenolphthalein                                                  | 201-004-7 | 77-09-8    | Carc. 1B<br>Muta. 2<br>Repr. 2                                                                                    | H350<br>H341<br>H361f***                             | GHS08<br>Dgr                            | H350<br>H341<br>H361f***                             |                                 | Carc. 1B; H350: C ≥ 1 %          |       |
| 604-079-00-8 | 4,4'-(1,3-phenylene-bis(1-methylethylidene))bis-phenol           | 428-970-4 | 13595-25-0 | Repr. 2<br>Skin Sens. 1<br>Aquatic<br>Chronic 2                                                                   | H361f***<br>H317<br>H411                             | GHS08<br>GHS07<br>GHS09<br>Wng          | H361f***<br>H317<br>H411                             |                                 |                                  |       |
| 605-005-00-7 | 2,4,6,8-tetramethyl-1,3,5,7-tetraoxa-cyclooctane;<br>metaldehyde | 203-600-2 | 108-62-3   | Flam. Sol. 2<br>Acute Tox. 4 *                                                                                    | H228<br>H302                                         | GHS02<br>GHS07<br>Wng                   | H228<br>H302                                         |                                 |                                  |       |
| 606-109-00-5 | 2-(4-methyl-3-pentenyl)anthraquinone                             | 428-320-1 | 71308-16-2 | Acute Tox. 4 *<br>Skin Sens. 1<br>Aquatic<br>Chronic 4                                                            | H302<br>H317<br>H413                                 | GHS07<br>Wng                            | H302<br>H317<br>H413                                 |                                 |                                  |       |

| Index No     | International Chemical Identification                                                                            | EC No     | CAS No      | Classification                                                                                                                           |                                                              | Labelling                      |                                                              |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                  |           |             | Hazard Class and Category Code(s)                                                                                                        | Hazard Statement Code(s)                                     | Pictogram, Signal Word Code(s) | Hazard statement Code(s)                                     | Suppl. Hazard statement Code(s) |                                  |       |
| 606-113-00-7 | 1-[4-(4-benzoylphenylsulfanyl)phenyl]-2-methyl-2-(4-methylphenylsulfonyl)propan-1-one                            | 429-040-0 | 272460-97-6 | Eye Dam. 1<br>Aquatic<br>Chronic 4                                                                                                       | H318<br>H413                                                 | GHS05<br>Dgr                   | H318<br>H413                                                 |                                 |                                  |       |
| 607-177-00-9 | tribenuron-methyl (ISO); methyl 2-[N-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-N-methylcarbamoylsulfamoyl]benzoate | 401-190-1 | 101200-48-0 | Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic<br>Chronic 1                                                                                  | H317<br>H400<br>H410                                         | GHS07<br>GHS09<br>Wng          | H317<br>H410                                                 |                                 | M = 100                          |       |
| 607-245-00-8 | tert-butyl acrylate                                                                                              | 216-768-7 | 1663-39-4   | Flam. Liq. 2<br>Acute Tox. 4 *<br>Acute Tox. 4 *<br>Acute Tox. 4 *<br>STOT SE 3<br>Skin Irrit. 2<br>Skin Sens. 1<br>Aquatic<br>Chronic 2 | H225<br>H332<br>H312<br>H302<br>H335<br>H315<br>H317<br>H411 | GHS02<br>GHS07<br>GHS09<br>Dgr | H225<br>H332<br>H312<br>H302<br>H335<br>H315<br>H317<br>H411 |                                 |                                  | D     |
| 607-504-00-5 | diammonium 1-hydroxy-2-(4-(4-carboxyphenylazo)-2,5-dimethoxyphenylazo)-7-amino-3-naphthalenesulfonate            | 422-670-7 | —           | Repr. 2<br>Acute Tox. 3 *<br>STOT RE 2 *<br>Aquatic Acute 1<br>Aquatic<br>Chronic 1                                                      | H361f<br>H301<br>H373**<br>H400<br>H410                      | GHS06<br>GHS08<br>GHS09<br>Dgr | H361f<br>H301<br>H373**<br>H410                              |                                 |                                  |       |
| 607-518-00-1 | 3-oxoandrost-4-ene-17-β-carboxylic acid                                                                          | 414-990-0 | 302-97-6    | Repr. 2<br>Aquatic<br>Chronic 4                                                                                                          | H361f<br>H413                                                | GHS08<br>Wng                   | H361f<br>H413                                                |                                 |                                  |       |
| 607-547-00-X | 18-methylnonadecyl 2,2-dimethylpropanoate                                                                        | 424-370-1 | 125496-22-2 | Skin Irrit. 2<br>Skin Sens. 1<br>Aquatic<br>Chronic 4                                                                                    | H315<br>H317<br>H413                                         | GHS07<br>Wng                   | H315<br>H317<br>H413                                         |                                 |                                  |       |
| 607-550-00-6 | 2-amino-4-bromo-5-chlorobenzoic acid                                                                             | 424-700-4 | —           | Eye Dam. 1<br>Aquatic<br>Chronic 3                                                                                                       | H318<br>H412                                                 | GHS05<br>Dgr                   | H318<br>H412                                                 |                                 |                                  |       |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                   | EC No     | CAS No      | Classification                                                                      |                                  | Labelling                               |                                  |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                         |           |             | Hazard Class and Category Code(s)                                                   | Hazard Statement Code(s)         | Pictogram, Signal Word Code(s)          | Hazard statement Code(s)         | Suppl. Hazard statement Code(s) |                                  |       |
| 607-591-00-X | reaction mass 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;<br>disodium 3-(4-ethenesulfonylphenylazo)-5-(4-fluoro-6-morpholin-4-yl-1,3,5-triazin-2-ylamino)-4-hydroxy-naphthalene-2,7-disulfonate | 428-400-4 | —           | Eye Dam. 1                                                                          | H318                             | GHS05<br>Dgr                            | H318                             |                                 |                                  |       |
| 608-011-00-8 | oxalonitrile;<br>cyanogen                                                                                                                                                                                                                                                                               | 207-306-5 | 460-19-5    | Press. Gas<br>Flam. Gas 1<br>Acute Tox. 3 *<br>Aquatic Acute 1<br>Aquatic Chronic 1 | H220<br>H331<br>H400<br>H410     | GHS02<br>GHS04<br>GHS06<br>GHS09<br>Dgr | H220<br>H331<br>H410             |                                 |                                  | U     |
| 608-057-00-9 | 4-(cyanomethyl)-4-methylmorpholin-4-ium hydrogen sulfate                                                                                                                                                                                                                                                | 431-200-1 | 208538-34-5 | Acute Tox. 4 *<br>Eye Dam. 1<br>Skin Sens. 1                                        | H302<br>H318<br>H317             | GHS05<br>GHS07<br>Dgr                   | H302<br>H318<br>H317             |                                 |                                  |       |
| 609-072-00-3 | 4-mesyl-2-nitrotoluene                                                                                                                                                                                                                                                                                  | 430-550-0 | 1671-49-4   | Repr. 2<br>Acute Tox. 4 *<br>Skin Sens. 1<br>Aquatic<br>Chronic 3                   | H361f***<br>H302<br>H317<br>H412 | GHS08<br>GHS07<br>Wng                   | H361f***<br>H302<br>H317<br>H412 |                                 |                                  |       |
| 611-028-00-3 | C,C'-azodi(formamide)                                                                                                                                                                                                                                                                                   | 204-650-8 | 123-77-3    | Resp. Sens. 1                                                                       | H334                             | GHS08<br>Dgr                            | H334                             |                                 |                                  | G     |
| 611-164-00-3 | reaction mass of: 2,2'-dimethyl-2,2'-azobutanenitrile;<br>2-methylpentanenitrile-2-azo-2'-(2'-methylpropanenitrile);<br>2,2'-dimethyl-2,2'-azoheptanenitrile;<br>2-methylheptanenitrile-2-azo-2'-(2'-methylpropanenitrile);<br>2-methylheptanenitrile-2-azo-2'-(2'-methylbutanenitrile)                 | 429-710-2 | —           | Self-react. D<br>Acute Tox. 4 *<br>Aquatic<br>Chronic 2                             | H242<br>H302<br>H411             | GHS02<br>GHS07<br>GHS09<br>Dgr          | H242<br>H302<br>H411             |                                 |                                  |       |

| Index No     | International Chemical Identification                                                                                                                                                     | EC No                                                            | CAS No                                                               | Classification                                                                                                                              |                                                                        | Labelling                               |                                                                        |                                 | Specific Conc. Limits, M-factors | Notes |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------|---------------------------------|----------------------------------|-------|
|              |                                                                                                                                                                                           |                                                                  |                                                                      | Hazard Class and Category Code(s)                                                                                                           | Hazard Statement Code(s)                                               | Pictogram, Signal Word Code(s)          | Hazard statement Code(s)                                               | Suppl. Hazard statement Code(s) |                                  |       |
| 612-237-00-2 | hydroxylammonium hydrogensulfate; hydroxylamine sulfate(1:1); [1]<br>hydroxylamine phosphate; [2]<br>hydroxylamine dihydrogenphosphate; [3]<br>hydroxylamine 4-methylbenzenesulfonate [4] | 233-154-4 [1]<br>244-077-0 [2]<br>242-818-2 [3]<br>258-872-5 [4] | 10046-00-1 [1]<br>20845-01-6 [2]<br>19098-16-9 [3]<br>53933-48-5 [4] | Expl. 1.1<br>Carc. 2<br>Acute Tox. 4 *<br>Acute Tox. 4 *<br>STOT RE 2 *<br>Eye Irrit. 2<br>Skin Irrit. 2<br>Skin Sens. 1<br>Aquatic Acute 1 | H201<br>H351<br>H312<br>H302<br>H373**<br>H319<br>H315<br>H317<br>H400 | GHS01<br>GHS08<br>GHS07<br>GHS09<br>Dgr | H201<br>H351<br>H312<br>H302<br>H373**<br>H319<br>H315<br>H317<br>H400 |                                 |                                  | T     |
| 613-010-00-0 | ametryn (ISO);<br>N-ethyl-N'-isopropyl-6-(methylthio)-1,3,5-triazine-2,4-diamine                                                                                                          | 212-634-7                                                        | 834-12-8                                                             | Acute Tox. 4 *<br>Aquatic Acute 1<br>Aquatic Chronic 1                                                                                      | H302<br>H400<br>H410                                                   | GHS07<br>GHS09<br>Wng                   | H302<br>H410                                                           |                                 | M = 100                          |       |
| 613-120-00-9 | bioresmethrin (ISO);<br>(5-benzyl-3-furyl)methyl (1R)-2,2-dimethyl-3-(2-methylprop-1-en-1-yl)cyclopropanecarboxylate                                                                      | 249-014-0                                                        | 28434-01-7                                                           | Aquatic Acute 1<br>Aquatic Chronic 1                                                                                                        | H400<br>H410                                                           | GHS09<br>Wng                            | H410                                                                   |                                 | M = 1000                         |       |
| 613-139-00-2 | metsulfuron-methyl (ISO);<br>methyl 2-[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]carbamoyl]sulfamoyl]benzoate                                                                               | —                                                                | 74223-64-6                                                           | Aquatic Acute 1<br>Aquatic Chronic 1                                                                                                        | H400<br>H410                                                           | GHS09<br>Wng                            | H410                                                                   |                                 | M = 1000                         |       |
| 613-161-00-2 | (2,4-diaminopteridin-6-yl)methanol hydrobromide                                                                                                                                           | 430-620-0                                                        | 76145-91-0                                                           | STOT RE 2 *<br>Skin Sens. 1<br>Aquatic Chronic 3                                                                                            | H373**<br>H317<br>H412                                                 | GHS08<br>GHS07<br>Wng                   | H373**<br>H317<br>H412                                                 |                                 |                                  |       |
| 613-204-00-5 | oxadiargyl (ISO);<br>3-[2,4-dichloro-5-(2-propynyloxy)phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one                                                                             | 254-637-6                                                        | 39807-15-3                                                           | Repr. 2<br>STOT RE 2 *<br>Aquatic Acute 1<br>Aquatic Chronic 1                                                                              | H361d***<br>H373**<br>H400<br>H410                                     | GHS08<br>GHS09<br>Wng                   | H361d***<br>H373**<br>H410                                             |                                 | M = 1000                         |       |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                            | EC No                                                            | CAS No                                                          | Classification                                                                                |                                                  | Labelling                               |                                                  |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                  |                                                                 | Hazard Class and Category Code(s)                                                             | Hazard Statement Code(s)                         | Pictogram, Signal Word Code(s)          | Hazard statement Code(s)                         | Suppl. Hazard statement Code(s) |                                  |       |
| 613-275-00-2 | 3-(2-chloroethyl)-6,7,8,9-tetra-hydro-2-methyl-4H-pyrido[1,2-a] pyrimidin-4-one monohydrochloride                                                                                                                                                                                                                                                                                                                | 424-530-0                                                        | 93076-03-0                                                      | Acute Tox. 3 *<br>STOT SE 2<br>STOT RE 2 *<br>Eye Dam. 1<br>Skin Sens. 1<br>Aquatic Chronic 2 | H301<br>H371**<br>H373**<br>H318<br>H317<br>H411 | GHS06<br>GHS05<br>GHS08<br>GHS09<br>Dgr | H301<br>H371**<br>H373**<br>H318<br>H317<br>H411 |                                 |                                  |       |
| 616-157-00-9 | 3-amino-4-hydroxy-N-(3-isopropoxy-propyl)benzenesulfonamide hydrochloride                                                                                                                                                                                                                                                                                                                                        | 427-780-9                                                        | 114565-70-7                                                     | Acute Tox. 4 *<br>Eye Dam. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1                          | H302<br>H318<br>H400<br>H410                     | GHS05<br>GHS07<br>GHS09<br>Dgr          | H302<br>H318<br>H410                             |                                 |                                  |       |
| 617-008-00-0 | dibenzoyl peroxide;<br>benzoyl peroxide                                                                                                                                                                                                                                                                                                                                                                          | 202-327-6                                                        | 94-36-0                                                         | Org. Perox. B<br>Eye Irrit. 2<br>Skin Sens. 1                                                 | H241<br>H319<br>H317                             | GHS01<br>GHS02<br>GHS07<br>Dgr          | H241<br>H319<br>H317                             |                                 |                                  |       |
| 617-010-00-1 | 1-hydroperoxycyclohexyl 1-hydroxycyclohexyl peroxide; [1]<br>1,1'-dioxybiscyclohexan-1-ol; [2]<br>cyclohexylidene hydroperoxide; [3]<br>cyclohexanone, peroxide [4]                                                                                                                                                                                                                                              | 201-091-1 [1]<br>219-306-2 [2]<br>220-279-4 [3]<br>235-527-7 [4] | 78-18-2 [1]<br>2407-94-5 [2]<br>2699-11-8 [3]<br>12262-58-7 [4] | Org. Perox. A<br>Skin Corr. 1B<br>Acute Tox. 4 *                                              | H240<br>H314<br>H302                             | GHS01<br>GHS05<br>GHS07<br>Dgr          | H240<br>H314<br>H302                             |                                 | STOT SE 3; H335:<br>C ≥ 5 %      | C     |
| 649-062-00-6 | Gases (petroleum), catalytic cracked naphtha depropanizer overhead, C <sub>3</sub> -rich acid-free;<br>Petroleum gas;<br>[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 <sub>2</sub> through C <sub>4</sub> , predominantly C <sub>3</sub> .] | 270-755-0                                                        | 68477-73-6                                                      | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B                                             | H220<br>H350<br>H340                             | GHS04<br>GHS02<br>GHS08<br>Dgr          | H220<br>H350<br>H340                             |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                         | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                               |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-063-00-1 | Gases (petroleum), catalytic cracker; Petroleum gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .]                                                                               | 270-756-6 | 68477-74-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-064-00-7 | Gases (petroleum), catalytic cracker, C <sub>1-5</sub> -rich; Petroleum gas;<br>[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 <sub>1</sub> through C <sub>6</sub> , predominantly C <sub>1</sub> through C <sub>5</sub> .]                                 | 270-757-1 | 68477-75-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-065-00-2 | Gases (petroleum), catalytic polymd. naphtha stabilizer overhead, C <sub>2-4</sub> -rich; Petroleum gas;<br>[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 <sub>2</sub> through C <sub>6</sub> , predominantly C <sub>2</sub> through C <sub>4</sub> .] | 270-758-7 | 68477-76-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-066-00-8 | Gases (petroleum), catalytic reformer, C <sub>1-4</sub> -rich; Petroleum gas;<br>[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 <sub>1</sub> through C <sub>6</sub> , predominantly C <sub>1</sub> through C <sub>4</sub> .]                                             | 270-760-8 | 68477-79-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                             | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                   |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-067-00-3 | Gases (petroleum), C <sub>3-5</sub> olefinic-paraffinic alkylation feed;<br>Petroleum gas;<br>[A complex combination of olefinic and paraffinic hydrocarbons having carbon numbers in the range of C <sub>3</sub> through C <sub>5</sub> which are used as alkylation feed. Ambient temperatures normally exceed the critical temperature of these combinations.] | 270-765-5 | 68477-83-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-068-00-9 | Gases (petroleum), C <sub>4</sub> -rich;<br>Petroleum gas;<br>[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 <sub>3</sub> through C <sub>5</sub> , predominantly C <sub>4</sub> .]                             | 270-767-6 | 68477-85-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-069-00-4 | Gases (petroleum), deethanizer overheads;<br>Petroleum gas;<br>[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.]                                                                                                           | 270-768-1 | 68477-86-1 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-070-00-X | Gases (petroleum), deisobutanizer tower overheads;<br>Petroleum gas;<br>[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 <sub>3</sub> through C <sub>4</sub> .]                                           | 270-769-7 | 68477-87-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                      |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-071-00-5 | Gases (petroleum), depropanizer dry, propene-rich;<br>Petroleum gas;<br>[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.]                                                   | 270-772-3 | 68477-90-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-072-00-0 | Gases (petroleum), depropanizer over-heads;<br>Petroleum gas;<br>[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 <sub>2</sub> through C <sub>4</sub> .] | 270-773-9 | 68477-91-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-073-00-6 | Gases (petroleum), gas recovery plant depropanizer overheads;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> , predominantly propane.]            | 270-777-0 | 68477-94-1 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-074-00-1 | Gases (petroleum), Girbatol unit feed;<br>Petroleum gas;<br>[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 <sub>2</sub> through C <sub>4</sub> .]                                    | 270-778-6 | 68477-95-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                                                      | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-075-00-7 | Gases (petroleum), isomerized naphtha fractionator, C <sub>4</sub> -rich, hydrogen sulfide-free;<br>Petroleum gas                                                                                                                                                                                                                                                                                                                                                          | 270-782-8 | 68477-99-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-076-00-2 | Tail gas (petroleum), catalytic cracked clarified oil and thermal cracked vacuum residue fractionation reflux drum;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .]                                                  | 270-802-5 | 68478-21-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-077-00-8 | Tail gas (petroleum), catalytic cracked naphtha stabilization absorber;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .]                                                                                                                                   | 270-803-0 | 68478-22-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-078-00-3 | Tail gas (petroleum), catalytic cracker, catalytic reformer and hydrodesulfurizer combined fractionator;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .] | 270-804-6 | 68478-24-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                    | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-079-00-9 | Tail gas (petroleum), catalytic reformed naphtha fractionation stabilizer;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .]                                                                               | 270-806-7 | 68478-26-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-080-00-4 | Tail gas (petroleum), saturate gas plant mixed stream, C <sub>4</sub> -rich;<br>Petroleum gas;<br>[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 <sub>3</sub> through C <sub>6</sub> , predominantly butane and isobutane.] | 270-813-5 | 68478-32-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-081-00-X | Tail gas (petroleum), saturate gas recovery plant, C <sub>1-2</sub> -rich;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>5</sub> , predominantly methane and ethane.]              | 270-814-0 | 68478-33-1 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-082-00-5 | Tail gas (petroleum), vacuum residues thermal cracker;<br>Petroleum gas;                                                                                                                                                                                                                                                                                                                                                                 | 270-815-6 | 68478-34-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                             | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                   |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>1</sub> through C <sub>5</sub> .]                                                                                                                                                                                            |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-083-00-0 | Hydrocarbons, C <sub>3-4</sub> -rich, petroleum distillate;<br>Petroleum gas;<br>[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 <sub>3</sub> through C <sub>5</sub> , predominantly C <sub>3</sub> through C <sub>4</sub> .]                                                                  | 270-990-9 | 68512-91-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-084-00-6 | Gases (petroleum), full-range straight-run naphtha dehexanizer off;<br>petroleum gas;<br>[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 <sub>2</sub> through C <sub>6</sub> .]                                                                                    | 271-000-8 | 68513-15-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-085-00-1 | Gases (petroleum), hydrocracking depropanizer off, hydrocarbon-rich;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> . It may also contain small amounts of hydrogen and hydrogen sulfide.] | 271-001-3 | 68513-16-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                  | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                        |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-086-00-7 | Gases (petroleum), light straight-run naphtha stabilizer off;<br>Petroleum gas;<br>[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 <sub>2</sub> through C <sub>6</sub> .]                                                                    | 271-002-9 | 68513-17-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-087-00-2 | Residues (petroleum), alkylation splitter, C <sub>4</sub> -rich;<br>Petroleum gas;<br>[A complex residuum from the distillation of streams various refinery operations. It consists of hydrocarbons having carbon numbers in the range of C <sub>4</sub> through C <sub>5</sub> , predominantly butane and boiling in the range of approximately – 11.7 °C to 27.8 °C (11 °F to 82 °F).]               | 271-010-2 | 68513-66-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-088-00-8 | Hydrocarbons, C <sub>1-4</sub> ;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> and boiling in the range of approximately minus 164 °C to minus 0.5 °C (– 263 °F to 31 °F).] | 271-032-2 | 68514-31-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-089-00-3 | Hydrocarbons, C <sub>1-4</sub> , sweetened;<br>Petroleum gas;                                                                                                                                                                                                                                                                                                                                          | 271-038-5 | 68514-36-3 | Press. Gas<br>Flam. Gas 1                         | H220<br>H350             | GHS04<br>GHS02                 | H220<br>H350             |                                 |                                  | K U   |

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|              |                                                                                                                                                                                                                                                                                                                                                                          |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>1</sub> through C <sub>4</sub> and boiling in the range of approximately – 164 °C to – 0.5 °C (– 263 °F to 31 °F).] |           |            | Carc. 1A<br>Muta. 1B                              | H340                     | GHS08<br>Dgr                   | H340                     |                                 |                                  |       |
| 649-090-00-9 | Hydrocarbons, C <sub>1-3</sub> ;<br>Petroleum gas;<br>[A complex combination of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> and boiling in the range of approximately minus 164 °C to minus 42 °C (– 263 °F to – 44 °F).]                                                                                     | 271-259-7 | 68527-16-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-091-00-4 | Hydrocarbons, C <sub>1-4</sub> , debutanizer fraction;<br>Petroleum gas                                                                                                                                                                                                                                                                                                  | 271-261-8 | 68527-19-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-092-00-X | Gases (petroleum), C <sub>1-5</sub> , wet;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .]                                                          | 271-624-0 | 68602-83-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-093-00-5 | Hydrocarbons, C <sub>2-4</sub> ;<br>Petroleum gas                                                                                                                                                                                                                                                                                                                        | 271-734-9 | 68606-25-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                               | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                     |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-094-00-0 | Hydrocarbons, C <sub>3</sub> ; Petroleum gas                                                                                                                                                                                                                                                                        | 271-735-4 | 68606-26-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 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 <sub>3</sub> through C <sub>4</sub> .]                                                   | 271-737-5 | 68606-27-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 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.]                                                                            | 271-742-2 | 68606-34-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 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 <sub>1</sub> through C <sub>5</sub> .]                                                   | 272-183-7 | 68783-07-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 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 <sub>3</sub> through C <sub>5</sub> .] | 272-203-4 | 68783-64-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-099-00-8 | Gases (petroleum), C <sub>2-4</sub> , sweetened; Petroleum gas;<br>[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 <sub>2</sub> through C <sub>4</sub> and boiling in the range of approximately – 51 °C to – 34 °C (– 60 °F to – 30 °F).] | 272-205-5 | 68783-65-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-100-00-1 | Gases (petroleum), crude oil fractionation off;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .]                                                                                                                                                                                    | 272-871-7 | 68918-99-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-101-00-7 | Gases (petroleum), dehexanizer off;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .]                                                                                                                                                                                 | 272-872-2 | 68919-00-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-102-00-2 | Gases (petroleum), light straight run gasoline fractionation stabilizer off;<br>Petroleum gas;                                                                                                                                                                                                                                                                                                                                                                                          | 272-878-5 | 68919-05-1 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                  | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                        |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>1</sub> through C <sub>5</sub> .]                                                                                                                      |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-103-00-8 | Gases (petroleum), naphtha unfiner desulfurization stripper off;<br>Petroleum gas;<br>[A complex combination of hydrocarbons produced by a naphtha unfiner desulfurization process and stripped from the naphtha product. It consists of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>4</sub> .] | 272-879-0 | 68919-06-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-104-00-3 | Gases (petroleum), straight-run naphtha catalytic reforming off;<br>Petroleum gas;<br>[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.]                                                                                        | 272-882-7 | 68919-09-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-105-00-9 | Gases (petroleum), fluidized catalytic cracker splitter overheads;<br>Petroleum gas;<br>[A complex combination of hydrocarbons produced by the fractionation of the charge to the C <sub>3</sub> -C <sub>4</sub> splitter. It consists predominantly of C <sub>3</sub> hydrocarbons.]                                                                                  | 272-893-7 | 68919-20-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-106-00-4 | Gases (petroleum), straight-run stabilizer off;<br>Petroleum gas;                                                                                                                                                                                                                                                                                                      | 272-883-2 | 68919-10-8 | Press. Gas<br>Flam. Gas 1                         | H220<br>H350             | GHS04<br>GHS02                 | H220<br>H350             |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                      |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>1</sub> through C <sub>4</sub> .]                                                                        |           |            | Carc. 1A<br>Muta. 1B                              | H340                     | GHS08<br>Dgr                   | H340                     |                                 |                                  |       |
| 649-107-00-X | Gases (petroleum), catalytic cracked naphtha debutanizer;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .]                                                             | 273-169-3 | 68952-76-1 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-108-00-5 | Tail gas (petroleum), catalytic cracked distillate and naphtha stabilizer;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .]             | 273-170-9 | 68952-77-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-109-00-0 | Tail gas (petroleum), thermal-cracked distillate, gas oil and naphtha absorber;<br>petroleum gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .] | 273-175-6 | 68952-81-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                             | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                   |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-110-00-6 | Tail gas (petroleum), thermal cracked hydrocarbon fractionation stabilizer, petroleum coking;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .]   | 273-176-1 | 68952-82-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-111-00-1 | Gases (petroleum, light steam-cracked, butadiene conc.;<br>Petroleum gas;<br>[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 <sub>4</sub> .]                                                                                                               | 273-265-5 | 68955-28-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-112-00-7 | Gases (petroleum), straight-run naphtha catalytic reformer stabilizer overhead;<br>Petroleum gas;<br>[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 <sub>2</sub> through C <sub>4</sub> .] | 273-270-2 | 68955-34-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-113-00-2 | Hydrocarbons, C <sub>4</sub> ;<br>Petroleum gas                                                                                                                                                                                                                                                                                                                                                   | 289-339-5 | 87741-01-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                         | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-114-00-8 | Alkanes, C <sub>1-4</sub> , C <sub>3</sub> -rich; Petroleum gas                                                                                                                                                                                                                                                                                                                                                                               | 292-456-4 | 90622-55-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-115-00-3 | Gases (petroleum), steam-cracker C <sub>3</sub> -rich; Petroleum gas;<br>[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).]                                                                                                                 | 295-404-9 | 92045-22-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-116-00-9 | Hydrocarbons, C <sub>4</sub> , steam-cracker distillate; Petroleum gas;<br>[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 <sub>4</sub> , 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).] | 295-405-4 | 92045-23-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-117-00-4 | Petroleum gases, liquefied, sweetened, C <sub>4</sub> fraction; Petroleum gas;<br>[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 <sub>4</sub> saturated and unsaturated hydrocarbons.]                                                                                              | 295-463-0 | 92045-80-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K S U |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                           | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                 |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-118-00-X | Hydrocarbons, C <sub>4</sub> , 1,3-butadiene- and isobutene-free;<br>Petroleum gas                                                                                                                                                                                                                                                              | 306-004-1 | 95465-89-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-119-00-5 | Raffinates (petroleum), steam-cracked C <sub>4</sub> fraction cuprous ammonium acetate extn., C <sub>3,5</sub> and C <sub>3,5</sub> unsatd., butadiene-free;<br>Petroleum gas                                                                                                                                                                   | 307-769-4 | 97722-19-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-120-00-0 | Gases (petroleum), amine system feed; Refinery gas;<br>[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 <sub>1</sub> through C <sub>5</sub> may also be present.] | 270-746-1 | 68477-65-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-121-00-6 | Gases (petroleum), benzene unit hydrodesulfurizer off;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>6</sub> , including benzene, may also be present.]                    | 270-747-7 | 68477-66-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-122-00-1 | Gases (petroleum), benzene unit recycle, hydrogen-rich;<br>Refinery gas;                                                                                                                                                                                                                                                                        | 270-748-2 | 68477-67-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                           | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                 |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>1</sub> through C <sub>6</sub> .]                                                                                                                     |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-123-00-7 | Gases (petroleum), blend oil, hydrogen-nitrogen-rich;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .] | 270-749-8 | 68477-68-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-124-00-2 | Gases (petroleum), catalytic reformed naphtha stripper overheads;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .]                                                        | 270-759-2 | 68477-77-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-125-00-8 | Gases (petroleum), C <sub>6-8</sub> catalytic reformer recycle;<br>Refinery gas;                                                                                                                                                                                                                                                                                                                | 270-761-3 | 68477-80-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                  | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C <sub>6</sub> -C <sub>8</sub> 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 <sub>1</sub> through C <sub>6</sub> .]                |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-126-00-3 | Gases (petroleum), C <sub>6-8</sub> catalytic reformer;<br>Refinery gas;<br>[A complex combination of hydrocarbons produced by distillation of products from catalytic reforming of C <sub>6</sub> -C <sub>8</sub> feed. It consists of hydrocarbons having carbon numbers in the range of C <sub>1</sub> through C <sub>5</sub> and hydrogen.]                                                                                        | 270-762-9 | 68477-81-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-127-00-9 | Gases (petroleum), C <sub>6-8</sub> catalytic reformer recycle, hydrogen-rich;<br>Refinery gas                                                                                                                                                                                                                                                                                                                                         | 270-763-4 | 68477-82-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-128-00-4 | Gases (petroleum), C <sub>2</sub> -return stream;<br>Refinery gas;<br>[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.] | 270-766-0 | 68477-84-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                            | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                  |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-129-00-X | Gases (petroleum), dry sour, gas-concn.-unit-off;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>3</sub> .]                                                                                                               | 270-774-4 | 68477-92-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-130-00-5 | Gases (petroleum), gas concn. reabsorber distn.;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>3</sub> .] | 270-776-5 | 68477-93-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-131-00-0 | Gases (petroleum), hydrogen absorber off;<br>Refinery gas;<br>[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 <sub>2</sub> hydrocarbons.]                                                                                                                                             | 270-779-1 | 68477-96-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-132-00-6 | Gases (petroleum), hydrogen-rich;<br>Refinery gas;<br>[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 <sub>2</sub> hydrocarbons.]                                                                                                                                        | 270-780-7 | 68477-97-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                        | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                              |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-133-00-1 | Gases (petroleum), hydrotreater blend oil recycle, hydrogen-nitrogen-rich; Refinery gas;<br>[A complex combination obtained from recycled hydrotreated blend oil. It consists primarily of hydrogen and nitrogen with various small amounts of carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>5</sub> .] | 270-781-2 | 68477-98-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-134-00-7 | Gases (petroleum), recycle, hydrogen-rich; Refinery gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .]                    | 270-783-3 | 68478-00-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-135-00-2 | Gases (petroleum), reformer make-up, hydrogen-rich; Refinery gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .]                                                             | 270-784-9 | 68478-01-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-136-00-8 | Gases (petroleum), reforming hydro-treater; Refinery gas;                                                                                                                                                                                                                                                                                                                                    | 270-785-4 | 68478-02-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                 | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                       |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>3</sub> through C <sub>5</sub> .]                                                                                                               |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-137-00-3 | Gases (petroleum), reforming hydro-treater, hydrogen-methane-rich; Refinery gas;<br>[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 <sub>2</sub> through C <sub>5</sub> .] | 270-787-5 | 68478-03-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-138-00-9 | Gases (petroleum), reforming hydro-treater make-up, hydrogen-rich; Refinery gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .]                                                 | 270-788-0 | 68478-04-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-139-00-4 | Gases (petroleum), thermal cracking distn.; Refinery gas;                                                                                                                                                                                                                                                                                                                                                             | 270-789-6 | 68478-05-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                           | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                 |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>1</sub> through C <sub>6</sub> .]                                                           |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-140-00-X | Tail gas (petroleum), catalytic cracker refractionation absorber;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>3</sub> .] | 270-805-1 | 68478-25-1 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-141-00-5 | Tail gas (petroleum), catalytic reformed naphtha separator;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .]                     | 270-807-2 | 68478-27-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-142-00-0 | Tail gas (petroleum), catalytic reformed naphtha stabilizer;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .]                    | 270-808-8 | 68478-28-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                       | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                             |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-143-00-6 | Tail gas (petroleum), cracked distillate hydrotreater separator;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .] | 270-809-3 | 68478-29-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-144-00-1 | Tail gas (petroleum), hydrodesulfurized straight-run naphtha separator;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .]                    | 270-810-9 | 68478-30-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-145-00-7 | Gases (petroleum), catalytic reformed straight-run naphtha stabilizer overheads;<br>Refinery gas;<br>[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.]                                                           | 270-999-8 | 68513-14-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-146-00-2 | Gases (petroleum), reformer effluent high-pressure flash drum off;<br>Refinery gas;                                                                                                                                                                                                                                                                                         | 271-003-4 | 68513-18-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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.]                                                                                                                                                                                                                                                                                             |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-147-00-8 | Gases (petroleum), reformer effluent low-pressure flash drum off;<br>Refinery gas;<br>[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.]                                                                                                                                                                                                            | 271-005-5 | 68513-19-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-148-00-3 | Gases (petroleum), oil refinery gas distn. off;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>6</sub> or obtained by cracking ethane and propane. It consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>2</sub> , hydrogen, nitrogen, and carbon monoxide.] | 271-258-1 | 68527-15-1 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-149-00-9 | Gases (petroleum), benzene unit hydrotreater depentanizer overheads;<br>Refinery gas;                                                                                                                                                                                                                                                                                                                                                                                                                | 271-623-5 | 68602-82-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                  | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>1</sub> through C <sub>6</sub> . It may contain trace amounts of benzene.] |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-150-00-4 | Gases (petroleum), secondary absorber off, fluidized catalytic cracker overheads fractionator;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>3</sub> .]              | 271-625-6 | 68602-84-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-151-00-X | Petroleum products, refinery gases;<br>Refinery gas;<br>[A complex combination which consists primarily of hydrogen with various small amounts of methane, ethane, and propane.]                                                                                                                                                                                                                                                       | 271-750-6 | 68607-11-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-152-00-5 | Gases (petroleum), hydrocracking low-pressure separator;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>3</sub> .]                                                                               | 272-182-1 | 68783-06-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                                  | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-153-00-0 | Gases (petroleum), refinery;<br>Refinery gas;<br>[A complex combination obtained from various petroleum refining operations. It consists of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C <sub>1</sub> through C <sub>3</sub> .]                                                                                                                                                                                     | 272-338-9 | 68814-67-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-154-00-6 | Gases (petroleum), platformer products separator off;<br>Refinery gas;<br>[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 <sub>2</sub> through C <sub>4</sub> .]                                                                                                                            | 272-343-6 | 68814-90-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-155-00-1 | Gases (petroleum), hydrotreated sour kerosine depentanizer stabilizer off;<br>Refinery gas;<br>[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 <sub>4</sub> through C <sub>5</sub> .] | 272-775-5 | 68911-58-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-156-00-7 | Gases (petroleum), hydrotreated sour kerosine flash drum;<br>Refinery gas;                                                                                                                                                                                                                                                                                                                                                                             | 272-776-0 | 68911-59-1 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                              | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                    |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>2</sub> through C <sub>5</sub> .]                           |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-157-00-2 | Gases (petroleum), distillate unifiner desulfurization stripper off;<br>Refinery gas;<br>[A complex combination stripped from the liquid product of the unifiner desulfurization process. It consists of hydrogen sulfide, methane, ethane, and propane.]                                                                                                                          | 272-873-8 | 68919-01-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-158-00-8 | Gases (petroleum), fluidized catalytic cracker fractionation off;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .] | 272-874-3 | 68919-02-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-159-00-3 | Gases (petroleum), fluidized catalytic cracker scrubbing secondary absorber off;<br>Refinery gas;<br>[A complex combination produced by scrubbing the overhead gas from the fluidized catalytic cracker. It consists of hydrogen, nitrogen, methane, ethane and propane.]                                                                                                          | 272-875-9 | 68919-03-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                              | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                    |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-160-00-9 | Gases (petroleum), heavy distillate hydrotreater desulfurization stripper off; Refinery gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .] | 272-876-4 | 68919-04-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-161-00-4 | Gases (petroleum), platformer stabilizer off, light ends fractionation; Refinery gas;<br>[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.]                                                                                                                            | 272-880-6 | 68919-07-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-162-00-X | Gases (petroleum), preflash tower off, crude distn.; Refinery gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .]                                                                        | 272-881-1 | 68919-08-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-163-00-5 | Gases (petroleum), tar stripper off; Refinery gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .]                                                                                                                             | 272-884-8 | 68919-11-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                    | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                          |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-164-00-0 | Gases (petroleum), unifier stripper off; Refinery gas; [A combination of hydrogen and methane obtained by fractionation of the products from the unifier unit.]                                                                                                                                                                                                                                          | 272-885-3 | 68919-12-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 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.]                                                                                                                                                                     | 273-173-5 | 68952-79-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 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 <sub>1</sub> through C <sub>5</sub> .]                                                                                                 | 273-174-0 | 68952-80-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 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 <sub>1</sub> through C <sub>4</sub> .] | 273-269-7 | 68955-33-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                              | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                    |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-168-00-2 | Gases (petroleum), crude distn. and catalytic cracking;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .]     | 273-563-5 | 68989-88-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-169-00-8 | Gases (petroleum), gas oil diethanolamine scrubber off;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .]                                                  | 295-397-2 | 92045-15-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-170-00-3 | Gases (petroleum), gas oil hydrodesulfurization effluent;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>3</sub> .] | 295-398-8 | 92045-16-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-171-00-9 | Gases (petroleum), gas oil hydrodesulfurization purge;<br>Refinery gas;                                                                                                                                                                                                                                                                                                            | 295-399-3 | 92045-17-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>1</sub> through C <sub>4</sub> .]                                                                                                                                                                                                                                                        |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-172-00-4 | Gases (petroleum), hydrogenator effluent flash drum off;<br>Refinery gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .]                                                                                                                                                                                   | 295-400-7 | 92045-18-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-173-00-X | Gases (petroleum), naphtha steam cracking high-pressure residual;<br>Refinery gas;<br>[A complex combination obtained as a reaction mass 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 <sub>1</sub> through C <sub>5</sub> with which natural gas may also be mixed.] | 295-401-2 | 92045-19-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-174-00-5 | Gases (petroleum), residue visbaking off;<br>Refinery gas;                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 295-402-8 | 92045-20-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                     | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                           |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>1</sub> through C <sub>5</sub> .]                                                                                                                                    |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-177-00-1 | Gases (petroleum), C <sub>3-4</sub> ;<br>Petroleum gas;<br>[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 <sub>3</sub> through C <sub>4</sub> , predominantly of propane and propylene, and boiling in the range of approximately – 51 °C to – 1 °C (– 60 °F to 30 °F).] | 268-629-5 | 68131-75-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-178-00-7 | Tail gas (petroleum), catalytic cracked distillate and catalytic cracked naphtha fractionation absorber;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .]   | 269-617-2 | 68307-98-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-179-00-2 | Tail gas (petroleum), catalytic polymn. naphtha fractionation stabilizer;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .]                                                              | 269-618-8 | 68307-99-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                             | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-180-00-8 | Tail gas (petroleum), catalytic reformed naphtha fractionation stabilizer, hydrogen sulfide-free;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .] | 269-619-3 | 68308-00-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-181-00-3 | Tail gas (petroleum), cracked distillate hydrotreater stripper;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .]                                                                        | 269-620-9 | 68308-01-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-182-00-9 | Tail gas (petroleum), straight-run distillate hydrodesulfurizer, hydrogen sulfide-free;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .]          | 269-630-3 | 68308-10-1 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-183-00-4 | Tail gas (petroleum), gas oil catalytic cracking absorber;<br>Petroleum gas;                                                                                                                                                                                                                                                                                                                                                                      | 269-623-5 | 68308-03-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                          | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>1</sub> through C <sub>5</sub> .]                                                                                                                                                                               |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-184-00-X | Tail gas (petroleum), gas recovery plant; Petroleum gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .]                                                                                                                            | 269-624-0 | 68308-04-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-185-00-5 | Tail gas (petroleum), gas recovery plant deethanizer; Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .]                                                                                                                              | 269-625-6 | 68308-05-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-186-00-0 | Tail gas (petroleum), hydrodesulfurized distillate and hydrodesulfurized naphtha fractionator, acid-free; Petroleum gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .] | 269-626-1 | 68308-06-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                               | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-187-00-6 | Tail gas (petroleum), hydrodesulfurized vacuum gas oil stripper, hydrogen sulfide-free;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .] | 269-627-7 | 68308-07-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-188-00-1 | Tail gas (petroleum), light straight-run naphtha stabilizer, hydrogen sulfide-free;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>5</sub> .]                 | 269-629-8 | 68308-09-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-189-00-7 | Tail gas (petroleum), propane-propylene alkylation feed prep deethanizer;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .]                                                                                                   | 269-631-9 | 68308-11-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                 | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
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|              |                                                                                                                                                                                                                                                                                                                                                                                                                       |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-190-00-2 | Tail gas (petroleum), vacuum gas oil hydrodesulfurizer, hydrogen sulfide-free;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>6</sub> .] | 269-632-4 | 68308-12-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-191-00-8 | Gases (petroleum), catalytic cracked overheads;<br>Petroleum gas;<br>[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 <sub>3</sub> through C <sub>5</sub> and boiling in the range of approximately – 48 °C to 32 °C (– 54 °F to 90 °F).]                       | 270-071-2 | 68409-99-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-193-00-9 | Alkanes, C <sub>1-2</sub> ;<br>Petroleum gas                                                                                                                                                                                                                                                                                                                                                                          | 270-651-5 | 68475-57-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-194-00-4 | Alkanes, C <sub>2-3</sub> ;<br>Petroleum gas                                                                                                                                                                                                                                                                                                                                                                          | 270-652-0 | 68475-58-1 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-195-00-X | Alkanes, C <sub>3-4</sub> ;<br>petroleum gas                                                                                                                                                                                                                                                                                                                                                                          | 270-653-6 | 68475-59-2 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------------------------------------------------|--------------------------|--------------------------------|--------------------------|---------------------------------|----------------------------------|-------|
|              |                                                                                                                                                                                                                                                                                                                                                                                                      |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-196-00-5 | Alkanes, C <sub>4-5</sub> ;<br>Petroleum gas                                                                                                                                                                                                                                                                                                                                                         | 270-654-1 | 68475-60-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-197-00-0 | Fuel gases;<br>Petroleum gas;<br>[A combination of light gases. It consists predominantly of hydrogen and/or low molecular weight hydrocarbons.]                                                                                                                                                                                                                                                     | 270-667-2 | 68476-26-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-198-00-6 | Fuel gases, crude oil of distillates;<br>Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> and boiling in the range of approximately – 217 °C to – 12 °C (– 423 °F to 10 °F).] | 270-670-9 | 68476-29-9 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-199-00-1 | Hydrocarbons, C <sub>3-4</sub> ;<br>Petroleum gas                                                                                                                                                                                                                                                                                                                                                    | 270-681-9 | 68476-40-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-200-00-5 | Hydrocarbons, C <sub>4-5</sub> ;<br>Petroleum gas                                                                                                                                                                                                                                                                                                                                                    | 270-682-4 | 68476-42-6 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                                           | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------------------------------------------------|--------------------------|--------------------------------|--------------------------|---------------------------------|----------------------------------|-------|
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-201-00-0 | Hydrocarbons, C <sub>2-4</sub> , C <sub>3</sub> -rich; Petroleum gas                                                                                                                                                                                                                                                                                                                                                                                            | 270-689-2 | 68476-49-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-202-00-6 | Petroleum gases, liquefied; Petroleum gas;<br>[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 <sub>3</sub> through C <sub>7</sub> and boiling in the range of approximately – 40 °C to 80 °C (– 40 °F to 176 °F).]                                                                                                                          | 270-704-2 | 68476-85-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K S U |
| 649-203-00-1 | Petroleum gases, liquefied, sweetened; Petroleum gas;<br>[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 <sub>3</sub> through C <sub>7</sub> and boiling in the range of approximately – 40 °C to 80 °C (– 40 °F to 176 °F).]                         | 270-705-8 | 68476-86-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K S U |
| 649-204-00-7 | gases (petroleum), C <sub>3-4</sub> , isobutane-rich; Petroleum gas;<br>[A complex combination of hydrocarbons from the distillation of saturated and unsaturated hydrocarbons usually ranging in carbon numbers from C <sub>3</sub> through C <sub>6</sub> , predominantly butane and isobutane. It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C <sub>3</sub> through C <sub>4</sub> , predominantly isobutane.] | 270-724-1 | 68477-33-8 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                                                                                                                            | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------------------------------------------------|--------------------------|--------------------------------|--------------------------|---------------------------------|----------------------------------|-------|
|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
| 649-205-00-2 | Distillates (petroleum), C <sub>3-6</sub> , piperylene-rich;<br>Petroleum gas;<br>[A complex combination of hydrocarbons from the distillation of saturated and unsaturated aliphatic hydrocarbons usually ranging in the carbon numbers C <sub>3</sub> through C <sub>6</sub> . It consists of saturated and unsaturated hydrocarbons having carbon numbers in the range of C <sub>3</sub> through C <sub>6</sub> , predominantly piperylenes.] | 270-726-2 | 68477-35-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-206-00-8 | Gases (petroleum), butane splitter overheads;<br>Petroleum gas;<br>[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 <sub>3</sub> through C <sub>4</sub> .]                                                                                                                                                | 270-750-3 | 68477-69-0 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-207-00-3 | Gases (petroleum), C <sub>2-3</sub> ;<br>Petroleum gas;<br>[A complex combination of hydrocarbons produced by the distillation of products from a catalytic fractionation process. It contains predominantly ethane, ethylene, propane, and propylene.]                                                                                                                                                                                          | 270-751-9 | 68477-70-3 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-208-00-9 | Gases (petroleum), catalytic-cracked gas oil depropanizer bottoms, C <sub>4</sub> -rich acid-free;<br>Petroleum gas;                                                                                                                                                                                                                                                                                                                             | 270-752-4 | 68477-71-4 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A             | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08        | H220<br>H350<br>H340     |                                 |                                  | K U   |

| Index No     | International Chemical Identification                                                                                                                                                                                                                                                                                                               | EC No     | CAS No     | Classification                                    |                          | Labelling                      |                          |                                 | Specific Conc. Limits, M-factors | Notes |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------------------------------------------------|--------------------------|--------------------------------|--------------------------|---------------------------------|----------------------------------|-------|
|              |                                                                                                                                                                                                                                                                                                                                                     |           |            | Hazard Class and Category Code(s)                 | Hazard Statement Code(s) | Pictogram, Signal Word Code(s) | Hazard statement Code(s) | Suppl. Hazard statement Code(s) |                                  |       |
|              | [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 <sub>3</sub> through C <sub>5</sub> , predominantly C <sub>4</sub> .]                    |           |            | Muta. 1B                                          |                          | Dgr                            |                          |                                 |                                  |       |
| 649-209-00-4 | Gases (petroleum), catalytic-cracked naphtha debutanizer bottoms, C <sub>3-5</sub> -rich; Petroleum gas;<br>[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 <sub>3</sub> through C <sub>5</sub> .] | 270-754-5 | 68477-72-5 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-210-00-X | Tail gas (petroleum), isomerized naphtha fractionation stabilizer; Petroleum gas;<br>[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 <sub>1</sub> through C <sub>4</sub> .]  | 269-628-2 | 68308-08-7 | Press. Gas<br>Flam. Gas 1<br>Carc. 1A<br>Muta. 1B | H220<br>H350<br>H340     | GHS04<br>GHS02<br>GHS08<br>Dgr | H220<br>H350<br>H340     |                                 |                                  | K U   |
| 649-364-00-8 | Residues (petroleum), butane splitter bottoms;<br>Low boiling point naphtha - unspecified;<br>[A complex residuum from the distillation of butane stream. It consists of aliphatic hydrocarbons having carbon numbers predominantly in the range of C <sub>4</sub> through C <sub>6</sub> .]                                                        | 270-791-7 | 68478-12-6 | Carc. 1B<br>Muta. 1B<br>Asp. Tox. 1               | H350<br>H340<br>H304     | GHS08<br>Dgr                   | H350<br>H340<br>H304     |                                 |                                  | P'    |

## ANNEX II

| Index No     | International Chemical name                               | EC No                          | CAS No                           | Classification                                                                                                                                 | Labelling                                                                    | Concentration Limits                                                                                                            | Notes  |
|--------------|-----------------------------------------------------------|--------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------|
| 005-007-00-2 | boric acid; [1]<br>boric acid [2]                         | 233-139-2 [1]<br>234-343-4 [2] | 10043-35-3 [1]<br>11113-50-1 [2] | Repr. Cat. 2; R60-61                                                                                                                           | T<br>R: 60-61<br>S: 53-45                                                    | Repr. Cat. 2; R60-61:<br>C ≥ 5,5 %                                                                                              |        |
| 015-182-00-7 | tetrapropan-2-yl<br>(dichloromethanediyl)bis(phosphonate) | 430-630-5                      | 10596-22-2                       | Xn; R22<br>Xi; R36<br>R43                                                                                                                      | Xn<br>R: 22-36-43<br>S: (2-)24-26-37                                         |                                                                                                                                 |        |
| 017-001-00-7 | chlorine                                                  | 231-959-5                      | 7782-50-5                        | O; R8<br>T; R23<br>Xi; R36/37/38<br>N; R50                                                                                                     | O; T; N<br>R: 8-23-36/37/38-50<br>S: (1/2-)9-45-61                           | N; R50: C ≥ 0,25 %                                                                                                              |        |
| 024-004-00-7 | sodium dichromate                                         | 234-190-3                      | 10588-01-9                       | O; R8<br>Carc. Cat. 2; R45<br>Muta. Cat. 2; R46<br>Repr. Cat. 2; R60-61<br>T+; R26<br>T; R25-48/23<br>Xn; R21<br>C; R34<br>R42/43<br>N; R50-53 | O; T+; N<br>R: 45-46-60-61-8-21-25-26-34-42/43-48/23-50/53<br>S: 53-45-60-61 | C; R34: C ≥ 10 %<br>Xi; R36/37/38: 5 %<br>≤ C < 10 %<br>R42/43: C ≥ 0,2 %                                                       | E<br>3 |
| 027-006-00-6 | cobalt di(acetate)                                        | 200-755-8                      | 71-48-7                          | Carc. Cat. 2; R49<br>Muta. Cat. 3; R68<br>Repr. Cat. 2; R60<br>R42/43<br>N; R50-53                                                             | T; N<br>R: 49-60-42/43-68-50/53<br>S: 53-45-60-61                            | Carc. Cat. 2; R49:<br>C ≥ 0,01 %<br>N; R50-53: C ≥ 2,5 %<br>N; R51-53: 0,25 %<br>≤ C < 2,5 %<br>R52-53: 0,025 %<br>≤ C < 0,25 % | 1      |
| 027-009-00-2 | cobalt dinitrate                                          | 233-402-1                      | 10141-05-6                       | Carc. Cat. 2; R49<br>Muta. Cat. 3; R68<br>Repr. Cat. 2; R60<br>R42/43<br>N; R50-53                                                             | T; N<br>R: 49-60-42/43-68-50/53<br>S: 53-45-60-61                            | Carc. Cat. 2; R49:<br>C ≥ 0,01 %<br>N; R50-53: C ≥ 2,5 %<br>N; R51-53: 0,25 %<br>≤ C < 2,5 %<br>R52-53: 0,025 %<br>≤ C < 0,25 % | 1      |

| Index No     | International Chemical name                                                                                          | EC No     | CAS No      | Classification                                         | Labelling                                                             | Concentration Limits                                                                                  | Notes |
|--------------|----------------------------------------------------------------------------------------------------------------------|-----------|-------------|--------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------|
| 606-138-00-3 | (2-butyl-5-nitrobenzofuran-3-yl)[4-(3-dibutylaminopropoxy)phenyl]methanone                                           | 444-800-1 | 141645-23-0 | R10<br>Xn; R22-48/22<br>Xi; R38-41<br>R43<br>N; R50-53 | Xn; N<br>R: 10-22-38-41-43-48/22-50/53<br>S: (2-)23-26-36/37/39-60-61 | N; R50-53: C ≥ 2,5 %<br>N; R51-53: 0,25 %<br>≤ C < 2,5 %<br>R52-53: 0,025 %<br>≤ C < 0,25 %           |       |
| 607-003-00-1 | chloroacetic acid                                                                                                    | 201-178-4 | 79-11-8     | T; R23/24/25<br>C; R34<br>N; R50                       | T; N<br>R: 23/24/25-34-50<br>S: (1/2-)26-36/37/39-45-61-63            | C; R34: C ≥ 10 %<br>Xn; R36/37/38:<br>5 % ≤ C < 10 %                                                  |       |
| 607-177-00-9 | tribenuron-methyl (ISO)<br>methyl 2-[N-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-N-methylcarbamoylsulfamoyl]benzoate   | 401-190-1 | 101200-48-0 | R43<br>N; R50-53                                       | Xi; N<br>R: 43-50/53<br>S: (2-)24-37-46-60-61                         | N; R50-53: C ≥ 0,25 %<br>N; R51-53: 0,025 %<br>≤ C < 0,25 %<br>R52-53: 0,0025 %<br>≤ C < 0,025 %      |       |
| 608-057-00-9 | 4-(cyanomethyl)-4-methylmorpholin-4-ium<br>hydrogen sulfate                                                          | 431-200-1 | 208538-34-5 | Xn; R22<br>Xi; R41<br>R43                              | Xn<br>R: 22-41-43<br>S: (2-)22-24-26-37/39                            |                                                                                                       |       |
| 612-050-00-6 | cyclohexylamine                                                                                                      | 203-629-0 | 108-91-8    | R10<br>Repr. Cat. 3; R62<br>Xn; R21/22<br>C; R34       | C<br>R: 10-21/22-34-62<br>S: (1/2-)26-36/37/39-45                     | C; R34: C ≥ 10 %<br>Xi; R36/38: 2 %<br>≤ C < 10 %                                                     |       |
| 613-010-00-0 | ametryn (ISO);<br>N-ethyl-N'-isopropyl-6-(methylthio)-1,3,5-triazine-2,4-diamine                                     | 212-634-7 | 834-12-8    | Xn; R22<br>N; R50-53                                   | Xn; N<br>R: 22-50/53<br>S: (2-)36-60-61                               | N; R50-53: C ≥ 0,25 %<br>N; R51-53: 0,025 %<br>≤ C < 0,25 %<br>R52-53: 0,0025 %<br>≤ C < 0,025 %      |       |
| 613-120-00-9 | bioresmethrin (ISO);<br>(5-benzyl-3-furyl)methyl (1R)-2,2-dimethyl-3-(2-methylprop-1-en-1-yl)cyclopropanecarboxylate | 249-014-0 | 28434-01-7  | N; R50-53                                              | N<br>R: 50/53<br>S: 60-61                                             | N; R50-53: C ≥ 0,025 %<br>N; R51-53: 0,0025 %<br>≤ C < 0,025 %<br>R52-53: 0,00025 %<br>≤ C < 0,0025 % |       |

| Index No     | International Chemical name                                                                                    | EC No     | CAS No     | Classification                               | Labelling                                           | Concentration Limits                                                                                  | Notes |
|--------------|----------------------------------------------------------------------------------------------------------------|-----------|------------|----------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------|
| 613-161-00-2 | (2,4-diaminopteridin-6-yl)methanol hydrobromide                                                                | 430-620-0 | 76145-91-0 | Xn; R48/22<br>R43<br>R52-53                  | Xn<br>R: 43-48/22-52/53<br>S: (2-)22-36/37-61       |                                                                                                       |       |
| 613-139-00-2 | metsulfuron-methyl (ISO);<br>methyl 2-[[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]carbamoyl]sulfamoyl]benzoate    | —         | 74223-64-6 | N; R50-53                                    | N<br>R: 50/53<br>S: 60-61                           | N; R50-53: C ≥ 0,025 %<br>N; R51-53: 0,0025 %<br>≤ C < 0,025 %<br>R52-53: 0,00025 %<br>≤ C < 0,0025 % |       |
| 613-204-00-5 | oxadiargyl (ISO);<br>3-[2,4-dichloro-5-(2-propynyloxy)phenyl]-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one; | 254-637-6 | 39807-15-3 | Repr. Cat. 3; R63<br>Xn; R48/22<br>N; R50-53 | Xn; N<br>R: 48/22-63-50/53<br>S: (2-)36/37-46-60-61 | N; R50-53: C ≥ 0,025 %<br>N; R51-53: 0,0025 %<br>≤ C < 0,025 %<br>R52-53: 0,00025 %<br>≤ C < 0,0025 % |       |

## ANNEX III

| Index No      | International Chemical Identification                                                                 | EC No     | CAS No     | Classification                                                                           |                                      | Labelling                                        |                              |                                 | Specific Conc. Limits, M-factors                                                                                                                                                            | Notes |
|---------------|-------------------------------------------------------------------------------------------------------|-----------|------------|------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------|------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|               |                                                                                                       |           |            | Hazard Class and Category Code(s)                                                        | Hazard Statement Code(s)             | Pictogram, Signal Word Code(s)                   | Hazard statement Code(s)     | Suppl. Hazard statement Code(s) |                                                                                                                                                                                             |       |
| '017-026-00-3 | chlorine dioxide                                                                                      | 233-162-8 | 10049-04-4 | Press. Gas<br>Ox. Gas 1<br>Acute Tox. 2 *<br>Skin Corr. 1B<br>Aquatic Acute 1            | H270<br>H330<br>H314<br>H400         | GHS04<br>GHS03<br>GHS06<br>GHS05<br>GHS09<br>Dgr | H270<br>H330<br>H314<br>H400 |                                 | M = 10                                                                                                                                                                                      | 5     |
| 017-026-01-0  | chlorine dioxide ... %                                                                                | 233-162-8 | 10049-04-4 | Acute Tox. 3 *<br>Skin Corr. 1B<br>Aquatic Acute 1                                       | H301<br>H314<br>H400                 | GHS06<br>GHS05<br>GHS09<br>Dgr                   | H301<br>H314<br>H400         |                                 | Skin Corr. 1B; H314: C ≥ 5 %<br>Skin Irrit. 2; H315:<br>1 % ≤ C < 5 %<br>Eye Dam. 1; H318:<br>3 % ≤ C < 5 %<br>Eye Irrit. 2; H319:<br>0,3 % ≤ C < 3 %<br>STOT SE 3; H335: C ≥ 3 %<br>M = 10 | B     |
| 053-003-00-4  | iodoxybenzene                                                                                         | —         | 696-33-3   | Expl. ****                                                                               | ****                                 | ****                                             | ****                         |                                 |                                                                                                                                                                                             |       |
| 053-004-00-X  | calcium iodoxybenzoate                                                                                | —         | —          | Expl. ****                                                                               | ****                                 | ****                                             | ****                         |                                 |                                                                                                                                                                                             | C     |
| 608-058-00-4  | esfenvalerate (ISO);<br>(S)-α-cyano-3-phenoxy-<br>benzyl-(S)-2-(4-chloro-<br>phenyl)-3-methylbutyrate | —         | 66230-04-4 | Acute Tox. 3 *<br>Acute Tox. 3 *<br>Skin Sens. 1<br>Aquatic Acute 1<br>Aquatic Chronic 1 | H331<br>H301<br>H317<br>H400<br>H410 | GHS06<br>GHS09<br>Dgr                            | H331<br>H301<br>H317<br>H410 |                                 | M = 10000'                                                                                                                                                                                  |       |

## ANNEX IV

| Index No      | International Chemical name                                                                 | EC No     | CAS No     | Classification                             | Labelling                                                          | Concentration Limits                                                                                        | Notes |
|---------------|---------------------------------------------------------------------------------------------|-----------|------------|--------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------|
| '017-026-00-3 | chlorine dioxide                                                                            | 233-162-8 | 10049-04-4 | O; R8<br>R6<br>T+; R26<br>C; R34<br>N; R50 | O; T+; N<br>R: 6-8-26-34-50<br>S: (1/2-)23-26-28-36/37/39-38-45-61 | N; R50: C ≥ 2,5 %                                                                                           | 5     |
| 017-026-01-0  | chlorine dioxide ... %                                                                      | 233-162-8 | 10049-04-4 | T; R25<br>C; R34<br>N; R50                 | T; N<br>R: 25-34-50<br>S: (1/2-)23-26-28-36/37/39-45-61            | C; R34: C ≥ 10 %<br>Xi; R37/38: 3 % ≤ C < 10 %<br>Xi; R36: 0,3 % ≤ C < 10 %<br>N; R50: C ≥ 2,5 %            | B     |
| 608-058-00-4  | esfenvalerate (ISO);<br>(S)-α-cyano-3-phenoxybenzyl-(S)-2-(4-chlorophenyl)-3-methylbutyrate | —         | 66230-04-4 | T; R23/25<br>R43<br>N; R50-53              | T; N<br>R: 23/25-43-50/53<br>S: (1/2-)24-36/37/39-45-60-61         | N; R50-53: C ≥ 0,0025 %<br>N; R51-53:<br>0,00025 % ≤ C < 0,0025 %<br>R52-53:<br>0,000025 % ≤ C < 0,00025 %' |       |







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