SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

<table>
<thead>
<tr>
<th>Trade name/designation</th>
<th>Aromatic hydrocarbons, C7-12, C8-rich, Low boiling point cat-reformed naphtha</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC Index</td>
<td>649-311-00-9</td>
</tr>
<tr>
<td>EC No</td>
<td>297-401-8</td>
</tr>
<tr>
<td>CAS No.</td>
<td>93571-75-6</td>
</tr>
</tbody>
</table>

1.2. Relevant identified uses of the substance or mixture and uses advised against

Main use category: Industrial use, Professional use

1.3. Details of the supplier of the safety data sheet

Company: Mercuria Energy Trading B.V. supplying for and on behalf of Mercuria Energy Trading S.A
Herculesplein 108
3584AA Utrecht, Netherlands
Telephone: +41 22 594 7000
Telefax: +41 22 594 3904
E-mail: emergency@sgs.com

1.4. Emergency telephone number

Emergency telephone: +32 3 575 11 30 (SGS 24/7 Emergency Hotline)

IRELAND (REPUBLIC OF)
National Poisons Information Centre
Beaumont Hospital
+353 18 37 99 64/+353 1 809 21 66

UNITED KINGDOM
National Poisons Information Service
(Newcastle Centre)
Regional Drugs and Therapeutics Centre, Wolfson Unit
0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

<table>
<thead>
<tr>
<th>CLP-Classification</th>
<th>The product is classified as hazardous in accordance with Regulation (EC) No. 1272/2008.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 1</td>
<td>H224</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>H315</td>
</tr>
<tr>
<td>Muta. 1B</td>
<td>H340</td>
</tr>
<tr>
<td>Carc. 1B</td>
<td>H350</td>
</tr>
<tr>
<td>Repr. 2</td>
<td>H361fd</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>H336</td>
</tr>
<tr>
<td>Asp. Tox. 1</td>
<td>H304</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>H411</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification: This substance is classified as hazardous according to 67/548/EEC.
Aromatic hydrocarbons, C7-12, C8-rich, Low boiling point cat-reformed naphtha

2.2. Label elements
2.2.1. Labelling according to Regulation (EU) 1272/2008
Hazard pictograms:

![Signal word: Danger](#)

Hazard statements:
- H224 - Extremely flammable liquid and vapour.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H336 - May cause drowsiness or dizziness.
- H340 - May cause genetic defects.
- H350 - May cause cancer.
- H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary statements:
- P201 - Obtain special instructions before use.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/.
- P331 - Do NOT induce vomiting.

2.2.2. Labelling according to Directives (67/548 - 1999/45)
Not relevant

2.3. Other hazards
Other hazards:
- Vapours can form explosive mixtures with air.
- Results of PBT and vPvB assessment:
  - This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances
### Substance name
Aromatic hydrocarbons, C7-12, C8-rich, Low boiling point cat-reformed naphtha

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Directive 67/548/EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CAS No.) 93571-75-6 (EC No) 297-401-8 (EC Index) 649-311-00-9</td>
<td>100</td>
<td>Carc. Cat.2; R45 Muta. Cat.2; R46 Repr. Cat.3; R62 Repr. Cat.3; R63 F.; R12 Xi; R28 Xi; R38 N; R51/53 R67</td>
</tr>
<tr>
<td>(CAS No.) 108-88-3 (EC No) 203-625-9 (EC Index) 601-021-00-3</td>
<td>&gt;= 3</td>
<td>Repr. Cat.3; R62 F.; R11 Xi; R65 Xi; R48/20 Xi; R38 N; R51/53 R67</td>
</tr>
<tr>
<td>(CAS No.) 110-54-3 (EC No) 203-777-6 (EC Index) 601-037-00-0</td>
<td>&gt;= 3</td>
<td>Repr. Cat.3; R62 F.; R11 Xi; R65 Xi; R48/20 Xi; R38 N; R51/53 R67</td>
</tr>
<tr>
<td>(CAS No.) 71-43-2 (EC No) 200-753-7 (EC Index) 601-020-00-8</td>
<td>&gt;= 0,1</td>
<td>P.; R11 Carc. Cat.1; R45 Muta. Cat.2; R46 T.; R48/23/24/25 Xi; R65 Xi; R51/53 R67</td>
</tr>
</tbody>
</table>

### Substance name
Aromatic hydrocarbons, C7-12, C8-rich, Low boiling point cat-reformed naphtha

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>(CAS No.) 93571-75-6 (EC No) 297-401-8 (EC Index) 649-311-00-9</td>
<td>100</td>
<td>Flam. Liq. 1, H224 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361d STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>(CAS No.) 108-88-3 (EC No) 203-625-9 (EC Index) 601-021-00-3</td>
<td>&gt;= 3</td>
<td>Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>(CAS No.) 110-54-3 (EC No) 203-777-6 (EC Index) 601-037-00-0</td>
<td>&gt;= 3</td>
<td>Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>(CAS No.) 71-43-2 (EC No) 200-753-7 (EC Index) 601-020-00-8</td>
<td>&gt;= 0,1</td>
<td>Flam. Liq. 2, H225 Carc. 1A, H350 Muta. 1B, H340 STOT RE 1, H372 Asp. Tox. 1, H304 Eye Irrit. 2, H319 Skin Irrit. 2, H315</td>
</tr>
</tbody>
</table>

Full text of R- and H-phrases: see section 16

### 3.2. Mixtures
Not applicable
SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.

Skin contact: Wash with plenty of soap and water. When in doubt or if symptoms are observed, get medical advice. Remove contaminated clothing and wash it before reuse.

Eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. When in doubt or if symptoms are observed, get medical advice.

In case of ingestion: Rinse mouth thoroughly with water. Do NOT induce vomiting. Get immediate medical advice/attention.

Additional advice: First aider: Pay attention to self-protection! Personal protection equipment: see section 8. Treat symptomatically. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice. Show this safety data sheet to the doctor in attendance.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation: May cause drowsiness or dizziness. Vapours may cause drowsiness and dizziness. The following symptoms may occur: Cough, Mental confusion, Headache.

Skin contact: Causes skin irritation. The following symptoms may occur: erythema (redness).

Eye contact: Contact with eyes may cause irritation. The following symptoms may occur: erythema (redness).

Ingestion: May be fatal if swallowed and enters airways. The following symptoms may occur: Central nervous system depression.

Other adverse effects: Suspected of damaging fertility. Suspected of damaging the unborn child. May cause cancer. May cause genetic defects.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, alcohol resistant foam, Dry extinguishing powder, Carbon dioxide

Extinguishing media which must not be used for safety reasons: Strong water jet

5.2. Special hazards arising from the substance or mixture

Fire hazard: Extremely flammable liquid and vapour.

Specific hazards: Heating causes rise in pressure with risk of bursting. Vapours can form explosive mixtures with air. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. Hazardous decomposition products Carbon oxides (COx)
Aromatic hydrocarbons, C7-12, C8-rich, Low boiling point cat-reformed naphtha

Organic compounds
as appropriate:
Hydrogen sulfide (H2S)
Sulphur oxides
Sulphuric acid
Do not allow run-off from fire-fighting to enter drains or water courses. Dispose according to legislation.

5.3. Advice for firefighters
Advice for firefighters
Special protective equipment for firefighters.
In case of fire: Wear self-contained breathing apparatus.
Use water spray jet to protect personnel and to cool endangered containers.
Evacuate area.
Do not allow run-off from fire-fighting to enter drains or water courses. Dispose according to legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Evacuate area.
Stay upwind/keep distance from source.
Provide adequate ventilation.
Use personal protective equipment as required.
Personal protection equipment: see section 8
Avoid contact with skin, eyes and clothes.
Do not breathe vapour/spray.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ensure that the equipment is adequately grounded.
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
Use only non-sparking tools.
As appropriate:
Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.

For emergency responders
Ensure procedures and training for emergency decontamination and disposal are in place.
Personal protection equipment: see section 8.

6.2. Environmental precautions
Environmental precautions
Do not allow to enter into ground-water, surface water or drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Use foam on spills to minimise vapours.
Stop leak if safe to do so.
Clean-up methods - small spillage: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.
Clean-up methods - large spillage: Use foam on spills to minimise vapours. Dam up. Large spills should be collected mechanically (remove by pumping) for disposal. Collect in closed and suitable containers for disposal.
Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.
Dispose of waste product or used containers according to local regulations.
6.4. Reference to other sections
Personal protection equipment: see section 8,
Disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Provide adequate ventilation.
Use personal protective equipment as required.
Personal protection equipment: see section 8
Avoid contact with skin, eyes and clothes.
Do not breathe vapour/spray.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take precautionary measures against static discharges.
Ensure that the equipment is adequately grounded.
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
Use only non-sparking tools.
Take any precaution to avoid mixing with incompatible materials.
See also section 10.
Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).
Do not allow contact with soil, surface or ground water.

Advises on general occupational hygiene:
Keep good industrial hygiene.
Wash hands before breaks and immediately after using the product.
Take off contaminated clothing.
When using do not eat, drink or smoke.
Keep work clothes separately.
Keep away from food, drink and animal feedingstuffs.
Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage:
Storage of flammable liquids
Keep in a dry, cool and well-ventilated place.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Open valve slowly to avoid pressure shock.
Do not store near or with any of the incompatible materials listed in section 10.
Protect from sunlight.
Bund storage facilities to prevent soil and water pollution in the event of spillage.
As appropriate:
Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.
Packaging materials: Keep/Store only in original container.
Suitable material: Mild steel, Stainless steel
Unsuitable material: synthetic material

**7.3 Specific end use(s)**
see attached exposure scenario.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**Exposure limit values**

: Not applicable

#### 8.2 Exposure controls

**Personal protection equipment**

: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

: In case of insufficient ventilation, wear suitable respiratory equipment.
Filter type: ABEK (EN 141)
Half-face mask (DIN EN 140)
Full face mask (EN 136)
Self-contained open-circuit compressed air breathing apparatus (EN 137)
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Hand protection**

: Wear chemically resistant gloves (tested to EN374), NBR (Nitrile rubber) > 0,3 mm, BTT: >480 min. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

**Eye protection**

: Use suitable eye protection. (EN 166) Goggles

**Body protection**

: Wear suitable coveralls to prevent exposure to the skin.
Chemical protection clothing
Antistatic clothing
In case of large spillages:
Wear full chemical protective clothing.

**Thermal hazard protection**

: Not required under normal use.
Use dedicated equipment.

**Engineering control measures**

: Provide adequate ventilation.
Safe handling: see section 7
Use only outdoors or in a well-ventilated area.
Store locked up.
Transfer and handle product only in closed systems.
Take precautionary measures against static discharges.
Ensure that the equipment is adequately grounded.
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

**Environmental exposure controls**

: Do not allow to enter into surface water or drains.
Comply with applicable Community environmental protection legislation.
Do not allow contact with soil, surface or ground water.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>petroleum hydrocarbon odour</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable, liquid</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>6,9 - 760 hPa (at 37.8 °C)</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility in different media</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: Extremely flammable liquid and vapour. Reference to other sections: 10.4 & 10.5

10.2. Chemical stability

Stability: The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: Vapours can form explosive mixtures with air.

10.4. Conditions to avoid

Conditions to avoid: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Safe handling: see section 7
SAFETY DATA SHEET

Aromatic hydrocarbons, C7-12, C8-rich, Low boiling point cat-reformed naphtha

10.5. Incompatible materials
Incompatible materials

10.6. Hazardous decomposition products
Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
: Not classified (Based on available data, the classification criteria are not met.)

<table>
<thead>
<tr>
<th>Hazardous substance</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aromatic hydrocarbons, C7-12, C8-rich, Low boiling point cat-reformed naphtha (93571-75-6)</td>
<td></td>
</tr>
<tr>
<td>LD50/oral/rat</td>
<td>4820 mg/kg</td>
</tr>
<tr>
<td>LD50/dermal/rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LC50/inhalation/4h/rat</td>
<td>&gt; 5.04 mg/l/4h</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
: Causes skin irritation. pH: No data available

Serious eye damage/eye irritation
: Not classified (Based on available data, the classification criteria are not met.) pH: No data available

Respiratory or skin sensitisation
: Not classified (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity
: May cause genetic defects. Benzene

Carcinogenicity
: May cause cancer. Benzene

Reproductive toxicity
: Suspected of damaging fertility. Suspected of damaging the unborn child. n-Hexane Toluene

STOT-single exposure
: May cause drowsiness or dizziness.

STOT-repeated exposure
: Not classified (Based on available data, the classification criteria are not met.)

Aspiration hazard
: May be fatal if swallowed and enters airways.

Other information
Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4

SECTION 12: Ecological information

12.1. Toxicity
Toxicity
: Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability
Persistence and degradability
: Not applicable Substance is complex UVCB.
12.3. Bioaccumulative potential
Bioaccumulation: Not applicable
Partition coefficient n-octanol/water: No data available

12.4. Mobility in soil
Mobility: No data available

12.5. Results of PBT and vPvB assessment
PBT/vPvB data: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects
Other information: No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product waste: Handle with care.
Safe handling: see section 7
Handling and storage: Refer to manufacturer/supplier for information on recovery/recycling.
Collect and dispose of waste product at an authorised disposal facility.
Do not allow contact with soil, surface or ground water.
Dispose of empty containers and wastes safely.
Recycling is preferred to disposal or incineration.
If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.

Contaminated packaging: Do not burn, or use a cutting torch on, the empty drum.
Do not puncture or incinerate.
Delivery to an approved waste disposal company.
Handle contaminated packages in the same way as the substance itself.
Dispose according to legislation.

List of proposed waste codes/waste designations in accordance with EWC: This material and its container must be disposed of as hazardous waste.
Waste codes should be assigned by the user based on the application for which the product was used.
The following Waste Codes are only suggestions:
13 07 02*
150110* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1. UN number
UN number: 1268

14.2. UN proper shipping name
Proper Shipping Name (IATA): PETROLEUM DISTILLATES, N.O.S.
Proper Shipping Name (IMDG): PETROLEUM DISTILLATES, N.O.S.
Proper Shipping Name (ADN): PETROLEUM DISTILLATES, N.O.S.
Aromatic hydrocarbons, C7-12, C8-rich, Low boiling point cat-reformed naphtha

14.3. Transport hazard class(es)

14.3.1. Overland transport
Class(es) : 3 - Flammable liquid
Hazard identification number (Kemler No.) : 33
Classification code : F1
ADR/RID-Labels : 3 - Flammable liquid

14.3.2. Inland waterway transport (ADN)
ADN : Hazards :3+N2
Class (UN) : 3

14.3.3. Transport by sea
Class or Division : 3 - flammable liquids

14.3.4. Air transport
Class or Division : 3 - flammable liquids

14.4. Packing group
Packing group : I

14.5. Environmental hazards
Environmental hazards : p

Other information : ADN : N2.

14.6. Special precautions for user
Special precautions for user : No data available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Code: IBC : No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Aromatic hydrocarbons, C7-12, C8-rich, Low boiling point cat-reformed naphtha
5. Benzene
28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogenic category 1A or 1B (Table 3.1) or Carcinogenic category 1 or 2 (Table 3.2) and listed as follows: Carcinogenic category 1A (Table 3.1)/Carcinogenic category 1 (Table 3.2) listed in Appendix 1 Carcinogenic category 1B (Table 3.1)/Carcinogenic category 2 (Table 3.2) listed in Appendix 2

29. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Germ cell Mutagen category 1A or 1B (Table 3.1) or Mutagen category 1 or 2 (Table 3.2) and listed as follows: Mutagen category 1A (Table 3.1)/Mutagen category 1 (Table 3.2) listed in Appendix 3 Mutagen category 1B (Table 3.1)/Mutagen category 2 (Table 3.2) listed in Appendix 4

30. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

48. Toluene

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC.

Authorisations: none

Take note of Directive 92/85/EC on the safety and health at work of pregnant workers.
Take note of Directive 94/33/EC on the protection of young people at work.

15.1.2. National regulations

DE: WGK: 3
DE: German storage class (LGK): LGK 3 - Flammable liquid materials (Flashpoint < 55 °C)
DE: TA-Luft: Organic Substances, Carcinogenic substances, Mutagenic applicable
DE: Technische Regeln für Gefahrstoffe (TRGS): applicable
DE: Risk classification according to VbF: A I - Liquids with a flashpoint below 21°C
FR: Installations classées: 143X; 113X; 117X
NL: ABM: 2 - May cause heritable genetic damage. (A)
NL: NeR (Nederlandse emissie Richtlijn): Organic substances in vapour or gaseous form

15.2. Chemical safety assessment

Chemical Safety Assessment: For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:
Aquatic Chronic 2: Hazardous to the aquatic environment - chronic hazard category 2
Asp. Tox. 1: Aspiration hazard, Category 1
Carc. 1A: Carcinogenicity, Category 1A
Carc. 1B: Carcinogenicity, Category 1B
Eye Irrit. 2: Serious eye damage/eye irritation Category 2
Aromatic hydrocarbons, C7-12, C8-rich, Low boiling point cat-reformed naphtha

- Flam. Liq. 1: Flammable liquids, Category 1
- Flam. Liq. 2: Flammable liquids, Category 2
- Muta. 1B: Germ cell mutagenicity, hazard categories 1B
- Repr. 2: Reproductive toxicity, Hazard Category 2
- Repr. 2: Reproductive toxicity, Hazard Category 2
- Repr. 2: Reproductive toxicity, Hazard Category 2
- Skin Irrit. 2: Skin corrosion/irritation, Category 2
- STOT RE 1: Specific target organ toxicity — Repeated exposure, Category 1
- STOT RE 2: Specific target organ toxicity — Repeated exposure, Category 2
- STOT SE 3: Specific target organ toxicity — Single exposure, Category 3, Narcosis

Key literature references and sources: European Chemicals Agency

Abbreviations and acronyms:
- ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
- ADR = Accord européen relatif au transport international des marchandises dangereuses par Route
- CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods Code
- LEL = Lower Explosive Limit/Lower Explosion Limit
- UEL = Upper Explosion Limit/Upper Explosive Limit
- REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
- N = Dangerous for the environment
TWA = time weighted average
PBT = persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
T = Toxic
TLV = Threshold limits
STEL = Short term exposure limit
DNEL = Derived No Effect Level
CSR = Chemical Safety Report
EC50 = Median Effective Concentration
UVCB = Substance of unknown or variable composition, complex reaction products or biological material (UVCB)
DMEL = Derived minimal effect level
PNEC = Predicted No Effect Concentration
OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
LC50 = Median lethal concentration
LD50 = Median lethal dose
LL50 = Median lethal level
EL50 = Median effective level
ErC50 = EC50 in terms of reduction of growth rate
ErL50 = EL50 in terms of reduction of growth rate
NOEL = No-observed-effect level
NOEC = No observed effect concentration
NOELR = No observed effect loading rate
NOAEC = No observed adverse effect concentration
NOAEL = No observed adverse effect level
EWC = European Waste Catalogue
NA = Not applicable
N.O.S. = Not Otherwise Specified
VOC = Volatile organic compounds
Quantitative structure-activity relationship (QSAR)
ABM = Algemene beoordelingsmethodiek
STOT = Specific Target Organ Toxicity
BTT = Breakthrough time (maximum wearing time)


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