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

1.1 Product identifier
Product name: TEMAFOUR 220W HARDENER
Product description: Hardener.

1.2 Relevant identified uses of the substance or mixture and uses advised against
Recommended use: Painting work

1.3 Details of the supplier of the safety data sheet
Manufacturer or Distributor:
Tikkurila Oyj
P.O. Box 53
FI-01301 VANTAAN
FINLAND
Telephone +358 20 191 2000

1.4 Emergency telephone number
Telephone number: 112
(24h)

Supplier or Manufacturer
Telephone number: Tikkurila Oyj
+358 20 191 2000 (GMT +2) Mon-Fri 8-16

date of issue/Date of revision: 2/19/2019
Date of previous issue: 7/3/2017

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Product definition: Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Acute Tox. 4, H302
Skin Corr. 1B, H314
Skin Sens. 1, H317
Aquatic Acute 1, H400
Aquatic Chronic 1, H410
The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements
Hazard pictograms:

Version: 3
Signal word: Danger

Hazard statements:
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H317 - May cause an allergic skin reaction.
- H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements:

General: None known.

Prevention:
- P261 - Avoid breathing vapor.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/clothing and eye/face protection.
- P284 - In case of inadequate ventilation wear respiratory protection.

Response:
- P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes if irritation persists. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a POISON CENTER or physician.

Storage: Not applicable.

Disposal: Not applicable.

Hazardous ingredients:
- Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine:
  - REACH #: 01-2119983521-35
  - CAS: 186321-96-0
  - ≥25 - ≤50
  - Skin Irrit. 2, H315
  - Eye Dam. 1, H318
  - Skin Sens. 1, H317
  - Aquatic Acute 1, H400 (M=1)
  - Aquatic Chronic 1, H410 (M=1)

- Benzyl alcohol:
  - REACH #: 01-2119492630-38
  - EC: 202-859-9
  - CAS: 100-51-6
  - ≥25 - ≤44
  - Acute Tox. 4, H302
  - Acute Tox. 4, H332
  - Skin Sens. 1, H317
  - Skin Sens. 1, H317
  - Aquatic Chronic 3, H412

- Isophorone diamine:
  - REACH #: 01-21199514687-32
  - EC: 220-668-8
  - CAS: 2855-13-2
  - Index: 612-067-00-9
  - ≥10 - ≤25
  - Acute Tox. 4, H302
  - Skin Sens. 1, H317
  - Skin Sens. 1, H317
  - Aquatic Chronic 2, H411

- Phenol, styrenated:
  - EC: 262-975-0
  - CAS: 61788-44-1
  - ≥10 - ≤25
  - Acute Tox. 4, H302
  - Skin Sens. 1, H317
  - Skin Sens. 1, H317
  - Aquatic Chronic 2, H411

- 2,4,6-tris(dimethylaminomethyl)phenol:
  - REACH #: 01-2119560597-27
  - ≥10 - ≤25
  - Acute Tox. 4, H302
  - Skin Sens. 1, H317
  - Skin Sens. 1, H317
  - Aquatic Chronic 2, H411

2.3 Other hazards

Other hazards which do not result in classification: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures: Mixture

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine</td>
<td>REACH #: 01-2119983521-35</td>
<td>≥25 - ≤50</td>
<td>Skin Irrit. 2, H315 (M=1)</td>
</tr>
<tr>
<td></td>
<td>CAS: 186321-96-0</td>
<td></td>
<td>Skin Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400 (M=1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1, H410 (M=1)</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>REACH #: 01-2119492630-38</td>
<td>≥25 - ≤44</td>
<td>Acute Tox. 4, H302</td>
</tr>
<tr>
<td></td>
<td>EC: 202-859-9</td>
<td></td>
<td>Acute Tox. 4, H332</td>
</tr>
<tr>
<td></td>
<td>CAS: 100-51-6</td>
<td></td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Isophorone diamine</td>
<td>REACH #: 01-21199514687-32</td>
<td>≥10 - ≤25</td>
<td>Acute Tox. 4, H302</td>
</tr>
<tr>
<td></td>
<td>EC: 220-668-8</td>
<td></td>
<td>Acute Tox. 4, H312</td>
</tr>
<tr>
<td></td>
<td>CAS: 2855-13-2</td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td>Index: 612-067-00-9</td>
<td></td>
<td>Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>Phenol, styrenated</td>
<td>EC: 262-975-0</td>
<td>≥10 - ≤25</td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td>CAS: 61788-44-1</td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>REACH #: 01-2119560597-27</td>
<td>≤10</td>
<td>Acute Tox. 4, H302</td>
</tr>
</tbody>
</table>
There are no additional ingredients present which, within the current knowledge of the supplier, contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

SECTION 4: First aid measures

4.1 Description of first aid measures

General  : In all cases of doubt, or when symptoms persist, seek medical attention. Show safety data sheet or label to the doctor if possible.

Eye contact  : Check for and remove any contact lenses. Immediately flush eyes with plenty of lukewarm water, keeping eyelids open. Continue to rinse for at least 20 minutes. Get medical attention immediately. Continue rinsing until medical attention can be obtained.

Inhalation  : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.

Skin contact  : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. In case of chemical burns, get medical attention as soon as possible.

Ingestion  : If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Remove to fresh air and at rest in a position comfortable for breathing. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

None.
SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire. Recommended: resistant foam, CO₂, powders or water spray/mist.
Unsuitable extinguishing media: Do not use a direct water jet that could spread the fire.

5.2 Special hazards arising from the substance or mixture
Hazardous combustion products: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

5.3 Advice for firefighters
Special protective actions for fire-fighters: Use water spray to keep fire-exposed containers cool. This material is hazardous to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Provide adequate ventilation. Do not breathe vapor or mist. Do not get in eyes or on skin. Put on appropriate personal protective equipment (see Section 8).

6.2 Environmental precautions: Hazardous to aquatic environment. Do not allow to enter drains, water courses or soil.

6.3 Methods and materials for containment and cleaning up: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections: See Section 1 for emergency contact information. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Avoid breathing vapor. Avoid inhalation of dust during normal use. If during normal use the material presents a respiratory hazard, use adequate ventilation or wear appropriate respirator. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product. Avoid release to the environment.

7.2 Conditions for safe storage, including any incompatibilities: Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed. Contain that have been opened must be carefully resealed and kept upright to prevent liquid loss. Do not store in unlabeled containers. Recommended storage temperature is +25 °C. Store in accordance with local regulations.

7.3 Specific end use(s): None.
SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

<table>
<thead>
<tr>
<th>Compartment Detail</th>
<th>Value</th>
<th>Method Det</th>
</tr>
</thead>
</table>
| No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates or solvent vapours below the OEL, suitable respiratory protection must be worn (see Personal protection for both components). Provide a readily-accessible eyewash facility. Comply with the health and safety at work laws.

Individual protection measures

Eye/face protection: Wear eye/face protection (EN166).

Hand protection: Always wear approved protective gloves against chemicals. Gloves should be replaced regularly and if there is any sign of damage to the glove material. T instructions and information provided by the glove manufacturer on use, store maintenance and replacement must be followed.

Recommended glove material (EN374):

- < 1 hour (breakthrough time): nitrile rubber, butyl rubber
- > 8 hours (breakthrough time): laminated foil

Not recommended: PVC or natural rubber (latex) gloves

Skin protection: Wear suitable protective clothing.

Respiratory protection: If ventilation is inadequate, use respirator that will protect against dust/mist. Use half mask or full face respirator with gas and vapor filter A and dust filter P2 d sanding (EN140:1998, EN405:2001). During continuous and long-term work use of motor-driven or air-fed respirators is recommended (EN12941:1998). Ensure to use an approved/certified respirator or equivalent. Check that mask fits tightly and change filter regularly.

Environmental exposure controls: For information regarding environmental protection measures, please refer to section 13 for waste handling, section 7 for handling and storage and section relevant identified uses of the substance or mixture and uses advised against.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Physical state: Liquid.
- Color: Clear.
- Odor: Strong.
- Odor threshold: Not relevant for the hazard assessment of the product.
- pH: Not relevant for the hazard assessment of the product.

Melting point/freezing point:

- 15.4°C (benzyl alcohol)

Initial boiling point and boiling range:

- 205.3°C (benzyl alcohol)
Date of issue/Date of revision: 19.02.2019
Date of previous issue: 03.07.2017.

Flash point: >100 °C
Evaporation rate: 0.007 (butyl acetate = 1) (benzyl alcohol)
Flammability (solid, gas): Not applicable. Product is a liquid.
Upper/lower flammability or explosive limits:
  Lower: 1.3% (benzyl alcohol)
  Upper: 13% (benzyl alcohol)
Vapor pressure: 0.0067 kPa [room temperature] (benzyl alcohol)
Vapor density: 0.03 g/cm³
Density: Not available.
Solubility(ies): Not available.
Partition coefficient: n-octanol/water: Not available.
Auto-ignition temperature: 436°C (benzyl alcohol)
Decomposition temperature: Not relevant for the hazard assessment of the product.
Viscosity: Not relevant for the hazard assessment of the product.
Explosive properties: No explosive ingredients present.
Oxidizing properties: No oxidizing ingredients present.

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity: See Section 10.5.

10.2 Chemical stability: Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid: Avoid extreme heat and freezing.

10.5 Incompatible materials: Keep away from the following materials to prevent strong exothermic reaction: oxidizing agents strong acids strong alkalis

10.6 Hazardous decomposition products: When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
There is no testdata available on the product itself. The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Long term exposure causes irritation of respiratory system and mucous membranes of nose and throat. Prolonged contact can cause severe irritation or even burns. The liquid splashed in the eyes may cause irreversible damage.

Acute toxicity
### Product/ingredient name

<table>
<thead>
<tr>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LC50 Inhalation Dusts and mists</strong></td>
<td>Rat</td>
<td>4.178 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td><strong>LD50 Oral</strong></td>
<td>Rat</td>
<td>1230 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>isophorone diamine</strong></td>
<td>Rat</td>
<td>1030 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>Phenol, styrenated</strong></td>
<td>Rabbit</td>
<td>&gt;5010 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>LD50 Oral</strong></td>
<td>Rat</td>
<td>2500 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>2,4,6-tris (dimethylaminomethyl) phenol</strong></td>
<td>Rat</td>
<td>1673 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>LD50 Oral</strong></td>
<td>Rat</td>
<td>1230 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>LD50 Oral</strong></td>
<td>Rat</td>
<td>1030 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>Phenol, styrenated</strong></td>
<td>Rabbit</td>
<td>&gt;5010 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>LD50 Oral</strong></td>
<td>Rat</td>
<td>2500 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>m-phenylenebis (methylamine)</strong></td>
<td>Rabbit</td>
<td>&gt;5010 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>LD50 Oral</strong></td>
<td>Rat</td>
<td>1230 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>LD50 Oral</strong></td>
<td>Rat</td>
<td>1030 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td><strong>Phenol, styrenated</strong></td>
<td>Rabbit</td>
<td>&gt;5010 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Harmful if swallowed.**

### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol, styrenated</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>0.1 Mililiters</td>
<td>-</td>
</tr>
<tr>
<td>Phenol, styrenated</td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>0.5 Mililiters</td>
<td>-</td>
</tr>
</tbody>
</table>

Causes severe skin burns and eye damage.

Sensitization
May cause an allergic skin reaction.

Mutagenicity
Not classified.

Carcinogenicity
Not classified.

Reproductive toxicity
Not classified.

Teratogenicity
Not classified.

Specific target organ toxicity (single exposure)
Not classified.

Specific target organ toxicity (repeated exposure)
Not classified.

Aspiration hazard
Not classified.

## SECTION 12: Ecological information

Ecological testing has not been conducted on this product. Do not allow to enter drains, water courses or soil.

The product is classified as environmentally hazardous according to Regulation (EC) 1272/2008. Very toxic to aquatic life with long lasting effects.

### 12.1 Toxicity
12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-tris (dimethylaminomethyl) phenol</td>
<td>OECD 301D</td>
<td>4 % - Not readily - 28 days</td>
<td>2 mg/l</td>
<td>Activated sludge</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>Bioconcentration factor [BCF]</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-phenylenebis (methylamine)</td>
<td>0.18</td>
<td>2.69</td>
<td>low</td>
</tr>
<tr>
<td>2,4,6-tris (dimethylaminomethyl) phenol</td>
<td>0.219</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>isophorone diamine</td>
<td>0.99</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>0.87</td>
<td>1.37</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : Not available.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal: Gather residues into waste containers. Liquid residue and cleaning liquids are hazardous waste and must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be special companies which have permission for gathering this kind of wastes.

European waste catalogue (EWC)

<table>
<thead>
<tr>
<th>Waste code</th>
<th>Waste designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 01 11*</td>
<td>waste paint and varnish containing organic solvents or other hazardous substances</td>
</tr>
</tbody>
</table>

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Packaging

Methods of disposal: Empty packaging should be disposed of in accordance with national regulations.

Special precautions: Note! The ready for use mixture of paint and hardener generates much heat. Allow the remainder of the mixture to harden in a safe place, e.g. in the open.

Gather residues into waste containers. Liquid residue and cleaning liquids are hazardous waste and must not be emptied ... Product residues should be left at special companies which have permission for gathering this kind of wastes.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN2735</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.2 UN proper shipping name</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMINES, LIQUID, CORROSIVE, N.O.S. (isophorone diamine, m-phenylenebis (methylamine))</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es)</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4 Packing group</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.5 Environmental hazards</th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional information

ADR/RID: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Hazard identification number: 80

Limited quantity: 5 L

Special provisions: 274

Tunnel code: (E)

IMDG: The marine pollutant mark is not required when transported in sizes of ≤5 L or

Emergency schedules: F-A, S-B

Special provisions: 223, 274

Version: 3
14.6 Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Other EU regulations

Europe inventory: Not determined.

VOC Directive: This product is in scope of Directive 2004/42/CE.

15.2 Chemical Safety Assessment: This product contains substances for which Chemical Safety Assessments are required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4, H302</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Corr. 1B, H314</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Sens. 1, H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Acute 1, H400</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 1, H410</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Full text of abbreviated H statements:

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]

Acute Tox. 4, H302  ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H312  ACUTE TOXICITY (dermal) - Category 4
Acute Tox. 4, H332  ACUTE TOXICITY (inhalation) - Category 4
Aquatic Acute 1, H400  AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1, H410  AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2, H411  AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3, H412  AQUATIC HAZARD (LONG-TERM) - Category 3
Eye Dam. 1, H318  SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319  SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Skin Corr. 1B, H314  SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C, H314  SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2, H315  SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317  SKIN SENSITIZATION - Category 1
Skin Sens. 1B, H317  SKIN SENSITIZATION - Category 1B

Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.