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

1.1 Product identifier
Product name: TEMACOAT GPL-S MIO
Product description: A two-component polyamide cured epoxy paint pigmented with micaceous iron oxide.

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 VANTAA
FINLAND
Telephone +358 20 191 2000
Fax +358 20 191 3000
e-mail address of person responsible for this SDS: Tikkurila Oyj, Product Safety, e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number
Supplier or Manufacturer
Telephone number: 112 (24h)

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]
Flam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Dam. 1, H318
Skin Sens. 1, H317
Aquatic Chronic 3, H412
The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements
Hazard pictograms:

Signal word: Danger
Hazard statements:
- H226 - Flammable liquid and vapor.
- H318 - Causes serious eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:
General: Not applicable.
Prevention:
- P261 - Avoid breathing mist/vapors/spray.
- P280 - Wear protective gloves/clothing and eye/face protection.
- P284 - In case of inadequate ventilation wear respiratory protection.
- P210 - Keep away from sparks and open flames. - No smoking.
- P273 - Avoid release to the environment.
Response:
- P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
Storage: Not applicable.
Disposal: Not applicable.
Hazardous ingredients:
- Epoxy resin (mw 700-1100)
- Phenol, methylstyrenated
- N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)

Supplemental label elements: Not applicable.

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>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy resin (mw 700-1100)</td>
<td>CAS: 25036-25-3</td>
<td>≥10 - ≤25</td>
<td>Skin Irrit. 2, H315</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2, H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
<td></td>
</tr>
</tbody>
</table>
| Reaction mass of m-xylene, o-xylene, p-xylene and ethylbenzene | REACH #: *)
|                         | EC: 215-535-7
|                         | CAS: 1330-20-7
|                         | Index: 601-022-00-9 | ≤9,6 | Flam. Liq. 3, H226 | C |
|                         |                      |      | Acute Tox. 4, H312 |       |
|                         |                      |      | Acute Tox. 4, H332 |       |
|                         |                      |      | Eye Irrit. 2, H319 |       |
|                         |                      |      | STOT SE 3, H335 |       |
|                         |                      |      | STOT RE 2, H373 |       |
|                         |                      |      | Asp. Tox. 1, H304 |       |
| Phenol, methylstyrenated | REACH #: 01-2119555274-38
|                         | EC: 270-966-8
|                         | CAS: 68512-30-1 | ≤10 | Skin Irrit. 2, H315 | - |
|                         |                      |      | Skin Sens. 1, H317 |       |
|                         |                      |      | Aquatic Chronic 3, H412 |       |
| n-butanol | REACH #: 01-2119484630-38
|                         | EC: 200-751-6
|                         | CAS: 71-36-3
|                         | Index: 803-004-00-6 | ≤5 | Flam. Liq. 3, H226 | - |
|                         |                      |      | Acute Tox. 4, H302 |       |
|                         |                      |      | Skin Irrit. 2, H315 |       |
|                         |                      |      | Eye Dam. 1, H318 |       |
|                         |                      |      | STOT SE 3, H335 |       |
|                         |                      |      | STOT SE 3, H336 |       |
| Hydrocarbons, C9, aromatics | REACH #: 01-2119455851-35
|                         | EC: 918-668-5
|                         | CAS: - | ≤4,9 | Flam. Liq. 3, H226 | H,P |
|                         |                      |      | STOT SE 3, H335 |       |
|                         |                      |      | STOT SE 3, H336 |       |
|                         |                      |      | Asp. Tox. 1, H304 |       |
|                         |                      |      | Aquatic Chronic 2, H411 |       |
|                         |                      |      | EUH066 |       |
| 1-methoxy-2-propanol | REACH #: 01-2119457435-35
|                         | EC: 203-539-1
<p>|                         | CAS: 107-98-2 | ≤5 | Flam. Liq. 3, H226 | - |
|                         |                      |      | STOT SE 3, H336 |       |</p>
<table>
<thead>
<tr>
<th>Substance / CAS Number / Index</th>
<th>Aquatic Chronic 4, H413</th>
<th>Aquatic Chronic 3, H412</th>
<th>Skin Sens. 1, H317</th>
<th>Occupational exposure limits, if available, are listed in Section 8.</th>
</tr>
</thead>
<tbody>
<tr>
<td>urea, polymer with formaldehyde, butylated (CAS: 68002-19-7)</td>
<td>≤3</td>
<td>-</td>
<td>-</td>
<td>There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.</td>
</tr>
<tr>
<td>N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide) (REACH #: 01-2119978265-26 EC: 204-613-6 CAS: 123-26-2)</td>
<td>≤0,3</td>
<td>-</td>
<td>-</td>
<td>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.</td>
</tr>
</tbody>
</table>

The REACH numbers of Reaction mass of m-xylene and o-xylene and p-xylene and ethylbenzene are 01-2119488216-32 and 01-2119555267-33.

4.1 Description of first aid measures

**General**: In all cases of doubt, or when symptoms persist, seek medical attention. Show this 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.

**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. Get medical attention if symptoms occur.

**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 keep at rest in a position comfortable for breathing. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Causes serious eye damage.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Inhalation of vapours may cause dizziness, headache and nausea.

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: Alcohol 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
**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**
Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Avoid breathing vapor or mist. Avoid direct skin contact with product. See Section 8 for information on appropriate personal protective equipment.

**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**
Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. Isolate from sources of heat, sparks and open flame. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically; always use earthing leads when transferring from one container to another. No sparking tools should be used. Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid inhalation of dust from sanding. Wear appropriate respirator when ventilation is inadequate. 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). No smoking. Store and use away from heat, sparks, open flame or any other ignition source. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Recommended storage temperature is +5°C ...+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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Expiration limit values</th>
</tr>
</thead>
</table>
| Reaction mass of m-xylene, o-xylene, p-xylene and ethylbenzene                         | EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list of indicative occupational exposure limit values  
TWA: 50 ppm 8 hours.  
TWA: 221 mg/m³ 8 hours.  
STEL: 100 ppm 15 minutes.  
STEL: 442 mg/m³ 15 minutes. |
| 1-methoxy-2-propanol                                                                  | EU OEL (Europe, 12/2009). Absorbed through skin. Notes: list of indicative occupational exposure limit values  
TWA: 100 ppm 8 hours.  
TWA: 375 mg/m³ 8 hours.  
STEL: 150 ppm 15 minutes.  
STEL: 568 mg/m³ 15 minutes. |

### Additional information

**Ethylbenzene**

EU OEL (Europe, 12/2009). Absorbed through skin.

TWA: 100 ppm 8 hours.  
TWA: 442 mg/m³ 8 hours.  
STEL: 200 ppm 15 minutes.  
STEL: 884 mg/m³ 15 minutes.

Please check your local legislation for national OEL value for ethylbenzene.

**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**

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. Use explosion-proof ventilation equipment. If these are not sufficient to maintain concentrations of particulates and 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. The instructions and information provided by the glove manufacturer on use, storage, 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. This product is classified as flammable. If necessary, personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibers.
Respiratory protection: If ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist. During spray-application use respirators with combination filter A/P3 (EN405:2001). Wear a half mask or full face respirator with gas and vapor filter A and dust filter P2 during sanding (EN140:1998, EN405:2001). During continuous and long-term work the use of motor-driven or air-fed respirators is recommended (EN12941:1998). Be sure 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 1.2 for 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: Grey.
- Red.
- 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: -94.96°C (xylene)
Initial boiling point and boiling range: 136.16°C (xylene)
Flash point: 25 °C (xylene)
Evaporation rate: 0.77 (butyl acetate = 1) (xylene)
Flammability (solid, gas): Not applicable. Product is a liquid.
Upper/lower flammability or explosive limits: Lower: 0.8% (xylene)
- Upper: 6.7% (xylene)
Vapor pressure: 0.89 kPa [room temperature] (xylene)
Vapor density: 3.7 (xylene)
Density: 1.6 to 1.7 g/cm³
Solubility(ies): insoluble in water.
Partition coefficient: n-octanol/water: Not available.
Auto-ignition temperature: 432°C (xylene)
Decomposition temperature: Not relevant for the hazard assessment of the product.
Viscosity: >60 s [ISO 6mm cup]
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: May present an explosion hazard when material is suspended in air in confined areas or equipment and subjected to spark, heat or flame.

10.4 Conditions to avoid: Avoid extreme heat and freezing. Avoid all possible sources of ignition (spark or flame).
10.5 Incompatible materials: Keep away from the following materials to prevent strong exothermic reactions: 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.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Based on the properties of the epoxy constituents and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitisation to other epoxies. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting.

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-butanol</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>24000 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>3400 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>790 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>xylene</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>22 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>1700 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>4300 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>LC50 Inhalation Gas.</td>
<td>Rabbit</td>
<td>4000 ppm</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

Not classified.

Irritation/Corrosion

Causes skin irritation. Causes serious eye damage.

Sensitization

May cause an allergic skin reaction.

Contains small amounts of sensitizing substances:
N,N’-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)

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. Harmful to aquatic life with long lasting effects.

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>phenol, methylstyrenated</td>
<td>LC50 25,8 mg/m³</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
<tr>
<td>hydrocarbons, C9, aromatics</td>
<td>LC50 1 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

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>Hydrocarbons, C9, aromatics</td>
<td>-</td>
<td>78 % - 28 days</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C9, aromatics</td>
<td>-</td>
<td>-</td>
<td>Readily</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>1-methoxy-2-propanol</td>
<td>&lt;1</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>n-butanol</td>
<td>1</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>phenol, methylstyrenated</td>
<td>3,627</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>Reaction mass of m-xylene, o-xylene, p-xylene and ethylbenzene</td>
<td>3,12</td>
<td>8.1 to 25.9</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

PBT : Not applicable.

vPvB : Not applicable.

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 left at special companies which have permission for gathering this kind of wastes.

European waste catalogue (EWC)
TEMACOAT GPL-S MIO

Date of previous issue: 11.05.2015.
Date of issue/Date of revision: 03.02.2017

Waste code | Waste designation
---|---
08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances

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 recycled or disposed of in accordance with national regulations.

Special precautions: None.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.1 UN number</strong></td>
<td>UN1263</td>
<td>UN1263</td>
</tr>
<tr>
<td><strong>14.2 UN proper shipping name</strong></td>
<td>PAINT</td>
<td>PAINT</td>
</tr>
<tr>
<td><strong>14.3 Transport hazard class(es)</strong></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>14.4 Packing group</strong></td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td><strong>14.5 Environmental hazards</strong></td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td><strong>Additional information</strong></td>
<td>Special provisions</td>
<td>Emergency schedules (EmS)</td>
</tr>
<tr>
<td></td>
<td>640 (E)</td>
<td>F-E,S-E</td>
</tr>
<tr>
<td></td>
<td>Viscous substance exemption</td>
<td>Viscous substance exemption</td>
</tr>
<tr>
<td></td>
<td>This class 3 material is not subject to regulation in packagings up to 450 L. Exempted according to 2.2.3.1.5 (Viscous substance exemption)</td>
<td>This class 3 material is not subject to regulation in packagings up to 30 L. Exempted according to 2.3.2.5 (Viscous substance exemption)</td>
</tr>
<tr>
<td></td>
<td>Tunnel code</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(D/E)</td>
<td></td>
</tr>
</tbody>
</table>

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 still 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>Flam. Liq. 3, H226</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Sens. 1, H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 3, H412</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

**Full text of abbreviated H statements**

<table>
<thead>
<tr>
<th>H</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H226</td>
<td>Flammable liquid and vapor.</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H413</td>
<td>May cause long lasting harmful effects to aquatic life.</td>
</tr>
</tbody>
</table>

**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 Chronic 2, H411 | AQUATIC HAZARD (LONG-TERM) - Category 2 |
| Aquatic Chronic 3, H412 | AQUATIC HAZARD (LONG-TERM) - Category 3 |
| Aquatic Chronic 4, H413 | AQUATIC HAZARD (LONG-TERM) - Category 4 |
| Asp. Tox. 1, H304 | ASPIRATION HAZARD - Category 1 |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| Eye Dam. 1, H318 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 |
| Eye Irrit. 2, H319 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| Flam. Liq. 3, H226 | FLAMMABLE LIQUIDS - Category 3 |
| Skin Irrit. 2, H315 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1, H317 | SKIN SENSITIZATION - Category 1 |
| STOT RE 2, H373 | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| STOT SE 3, H335 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
STOT SE 3, H336  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

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Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II 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.