SAFETY DATA SHEET
HARDENER 008 5612

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

1.1 Product identifier
- Product name: HARDENER 008 5612
- Product description: Hardener.

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Recommended use: Painting work
- Only for industrial and professional use. The product is not intended for consumer use.

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
- e-mail address of person responsible for this SDS: Tikkurila Oyj, Product Safety, e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number
- Telephone number: 112 (24h)
- Supplier or Manufacturer: Tikkurila Oyj
  Telephone number: +358 20 191 2000 (GMT +2) Mon-Fri 8-16

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
  - Eye Dam. 1, H318
  - Skin Sens. 1, H317
  - Repr. 2, H361
  - Aquatic Chronic 3, H412
- The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements
- Hazard pictograms:
  - Acute Tox. 4, H302
  - Skin Corr. 1B, H314
  - Eye Dam. 1, H318
  - Skin Sens. 1, H317
  - Repr. 2, H361
  - Aquatic Chronic 3, H412
- Signal word: Danger
Hazard statements:
- P302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H317 - May cause an allergic skin reaction.
- H361d - Suspected of damaging the unborn child.
- H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:
**General**: Not applicable.
**Prevention**:
- P261 - Avoid breathing mist/vapors/spray.
- 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.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. 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**:
- Benzyl alcohol
- Cycloaliphatic amine
- M-phenylenebis(methylamine)
- Salicylic acid
- Isophorone diamine

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>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Notes</th>
</tr>
</thead>
</table>
| Benzyl alcohol          | REACH #: 01-2119492630-38  
EC: 202-859-9  
CAS: 100-51-6  
Index: 603-057-00-5 | ≥25 - ≤41 | Acute Tox. 4, H302  
Acute Tox. 4, H332 | - |
| Cycloaliphatic amine    | REACH #: 01-2119965165-33  
EC: 500-101-4  
CAS: 382-94-64-3 | ≥25 - ≤50 | Skin Corr. 1B, H314  
Eye Dam. 1, H318  
Skin Sens. 1, H317  
Aquatic Chronic 3, H412 | - |
| M-phenylenebis(methylamine) | REACH #: 01-2119480150-50  
EC: 216-032-5  
CAS: 1477-55-0 | ≤11 | Acute Tox. 4, H302  
Acute Tox. 4, H332  
Skin Corr. 1B, H314  
Eye Dam. 1, H318  
Skin Sens. 1, H317  
Aquatic Chronic 3, H412 | - |
| Salicylic acid          | REACH #: 01-2119486984-17  
EC: 290-712-3  
CAS: 69-72-7  
Index: 607-732-00-5 | ≤5 | Acute Tox. 4, H302  
Eye Dam. 1, H319  
Repr. 2, H361d | - |
| Benzyl alcohol          | REACH #: 01-2119492630-38  
EC: 202-859-9  
CAS: 100-51-6 | ≤4.2 | Acute Tox. 4, H302  
Acute Tox. 4, H332  
Eye Irrit. 2, H319 | - |
| Isophorone diamine      | REACH #: 01-2119514687-32  
EC: 220-666-8  
CAS: 2855-13-2  
Index: 612-067-00-9 | ≤3 | Acute Tox. 4, H302  
Acute Tox. 4, H312  
Skin Corr. 1B, H314  
Eye Dam. 1, H318  
Skin Sens. 1, H317 | - |
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 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. 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 keep 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.
Suspected of damaging the unborn child.
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: 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

Hazard from the substance or mixture: This product is not classified as flammable. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
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 exposure - obtain special instructions before use. Avoid exposure during pregnancy. Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid contact with skin and eyes. Avoid inhalation of dust from sanding. If during normal use the material presents a respiratory hazard, use only with 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. 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

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
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 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.
- **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. No PNECs available.

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)
  - 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: 3.7 (benzyl alcohol)
  - Density: 1.05 g/cm³
  - Solubility(ies): insoluble in water.
  - 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 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.
Long term exposure causes irritation of respiratory system and mucous membranes of nose and throat. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system 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. Prolonged contact can cause severe irritation or even burns. The liquid splashed in the eyes may cause irreversible damage.

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>benzyl alcohol</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat</td>
<td>4.178 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1230 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>m-phenylenebis (methylamine)</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat</td>
<td>1.34 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>2.4 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>930 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>400 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>salicylic acid</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>400 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat</td>
<td>4.178 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1230 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>isophorone diamine</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1030 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Harmful if swallowed.
Irritation/Corrosion
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
Suspected of damaging the unborn child.
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>Species</th>
<th>Result</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>cycloaliphatic amine</td>
<td>Fish</td>
<td>Acute LC50 70.7 mg/l</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute EC50 12 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute EC50 15.2 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute LC50 75 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC 4.7 mg/l</td>
<td></td>
</tr>
<tr>
<td>m-phenylenebis (methylamine)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Algae - Scenedesmus subspicatus</td>
<td>72 hours</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Daphnia</td>
<td></td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td></td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Daphnia</td>
<td></td>
<td>21 days</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>cycloaliphatic amine</td>
<td>OECD 301F</td>
<td>0 % - Not readily - 28 days</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Product/ingredient name**

Aquatic half-life | Photolysis | Biodegradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>cycloaliphatic amine</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
</tbody>
</table>

### 12.3 Bioaccumulative potential
12.4 Mobility in soil

Soil/water partition coefficient (K_{oc})

: 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 left at 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

: None.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN number</td>
<td>UN2735</td>
<td>UN2735</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic amine)</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S. (cycloaliphatic amine)</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>
14.4 Packing group | III | III | III
---|---|---|---
14.5 Environmental hazards | No. | No. | No.

Additional information

**ADR/RID** | Hazard identification number 80
---|---
Limited quantity | 5 L
Special provisions | 274
Tunnel code (E)

**IMDG** | Emergency schedules F-A, S-B
---|---
Special provisions | 223, 274

**IATA** | Quantity limitation
---|---
Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852.
Special provisions A3, A803

**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 IMO instruments** | 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)**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Intrinsic property</th>
<th>Status</th>
<th>Reference number</th>
<th>Date of revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-tert-butylphenol</td>
<td>Substance of equivalent concern for environment</td>
<td>Candidate</td>
<td>ED/71/2019, EU/2019/1194</td>
<td>7/16/2019</td>
</tr>
</tbody>
</table>

**Other EU regulations**

Europe inventory | Not determined.

#### 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]

**Classification**

**Justification**
**Acute Tox. 4, H302**  
Calculation method

**Skin Corr. 1B, H314**  
Calculation method

**Eye Dam. 1, H318**  
Calculation method

**Skin Sens. 1, H317**  
Calculation method

**Repr. 2, H361**  
Calculation method

**Aquatic Chronic 3, H412**  
Calculation method

**Full text of abbreviated H statements**

<table>
<thead>
<tr>
<th>H Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</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>H322</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child.</td>
</tr>
<tr>
<td>H361d</td>
<td>Suspected of damaging the unborn child.</td>
</tr>
<tr>
<td>H361f</td>
<td>Suspected of damaging fertility.</td>
</tr>
<tr>
<td>H410</td>
<td>Very 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>
</tbody>
</table>

**Full text of classifications [CLP/GHS]**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4</td>
<td>ACUTE TOXICITY - Category 4</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>AQUATIC HAZARD (LONG-TERM) - Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>AQUATIC HAZARD (LONG-TERM) - Category 3</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2</td>
</tr>
<tr>
<td>Repr. 2</td>
<td>TOXIC TO REPRODUCTION - Category 2</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>SKIN CORROSION/IRRITATION - Category 1B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>SKIN CORROSION/IRRITATION - Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>SKIN SENSITIZATION - Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3</td>
</tr>
</tbody>
</table>

**Date of issue/ Date of revision**  
2/24/2020

**Date of previous issue**  
8/23/2019

**Version**  
4

**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.