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

1.1. Product identifier
Trade name or designation of the mixture: Hylomar Tilebond 402 Part A Hardener
Registration number: -
Synonyms: None.
SDS number: 26
Issue date: 29-November-2012
Version number: 03
Revision date: 04-July-2017
Supersedes date: 22-March-2013

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Epoxy adhesive.
Uses advised against: None known.

1.3. Details of the supplier of the safety data sheet
Manufacturer: Hylomar Ltd.
Address: Hylo House, Cale Lane, New Springs, Wigan, Greater Manchester, UK, WN2 1JT
TelephoneNumber: +44(0)1942 617000
E-mail address: info@hylomar.co.uk
Contact person: Technical Department

1.4. Emergency telephone number
Access code: 333544

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards
- Skin corrosion/irritation Category 1B
  - H314 - Causes severe skin burns and eye damage.
- Serious eye damage/eye irritation Category 1
  - H318 - Causes serious eye damage.
- Skin sensitisation Category 1
  - H317 - May cause an allergic skin reaction.

Environmental hazards
- Hazardous to the aquatic environment, acute aquatic hazard Category 1
  - H400 - Very toxic to aquatic life.
- Hazardous to the aquatic environment, long-term aquatic hazard Category 1
  - H410 - Very toxic to aquatic life with long lasting effects.

Hazard summary
Causes severe skin burns and eye damage. Harmful if swallowed. May cause an allergic skin reaction. Prolonged exposure may cause chronic effects. Dangerous for the environment if discharged into watercourses.

2.2. Label elements
Label according to Regulation (EC) No. 1272/2008 as amended
Contains: Amines, coco alkyl, Phenol, styronated, Trimethylhexane-1,6-diamine

Hazard pictograms
Signal word  Danger

Hazard statements

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

Prevention  
P261  Avoid breathing mist/vapours/spray.
P280  Wear protective gloves/protective clothing/eye protection/face protection.

Response  
P303 + P361 + P353  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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 CENTRE/doctor.

Storage  
P405  Store locked up.

Disposal  
P501  Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information  
None.

2.3. Other hazards  
Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>%</th>
<th>CAS-No. / EC No.</th>
<th>REACH Registration No.</th>
<th>Index No.</th>
<th>Notes</th>
</tr>
</thead>
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<tr>
<td>Phenol, styronated</td>
<td>20-50</td>
<td>61788-44-1 / 262-975-0</td>
<td>-</td>
<td>-</td>
<td></td>
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<tr>
<td>Classification:</td>
<td></td>
<td></td>
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<tr>
<td>Skin Irrit. 2;H315, Skin Sens. 1;H317, Aquatic Chronic 2;H411</td>
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<td></td>
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<tr>
<td>Dimethyl silicone polymer with silica</td>
<td>10-15</td>
<td>67762-90-7</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
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<td>Eye Irrit. 2;H319</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol</td>
<td>1-10</td>
<td>90-72-2 / 202-013-9</td>
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<td>603-069-00-0</td>
<td></td>
</tr>
<tr>
<td>Classification:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Irrit. 2;H319</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amines, coco alkyl</td>
<td>1-&lt;10</td>
<td>61788-46-3 / 262-977-1</td>
<td>-</td>
<td>612-285-00-4</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Acute Tox. 4;H302, Asp. Tox. 1;H304, Skin Corr. 1B;H314, Eye Dam. 1;H318, STOT SE 3;H335, STOT RE 2;H373, Aquatic Acute 1;H400, Aquatic Chronic 1;H410</td>
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<tr>
<td>Trimethylhexane-1,6-diamine</td>
<td>1-10</td>
<td>25513-64-8 / 247-063-2</td>
<td>01-2119560598-25-xxxx</td>
<td>-</td>
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</tr>
<tr>
<td>Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Skin Sens. 1;H317, Aquatic Chronic 3;H412</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

List of abbreviations and symbols that may be used above

M: M-factor

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits. The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation  
Move injured person into fresh air and keep person calm under observation. Get medical attention if discomfort persists.

Skin contact  
Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control centre immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact  
Immediately flush with plenty of water for at least 15 minutes occasionally lifting upper and lower eyelids. If easy to do, remove contact lenses. Get medical attention immediately. Continue to rinse.
Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get immediate medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**
Sensitisation. Causes skin and eye burns. Vapours may irritate throat and respiratory system and cause coughing.

**4.3. Indication of any immediate medical attention and special treatment needed**
Treat symptomatically. Symptoms may be delayed.

### SECTION 5: Firefighting measures

**General fire hazards**
The product is not flammable. Will burn if involved in a fire.

**5.1. Extinguishing media**
- **Suitable extinguishing media**: Water spray, foam, dry powder or carbon dioxide.
- **Unsuitable extinguishing media**: Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture**
By heating and fire, toxic vapours/gases may be formed.

**5.3. Advice for firefighters**
- **Special protective equipment for firefighters**: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
- **Special fire fighting procedures**: Cool containers exposed to heat with water spray and remove container, if no risk is involved. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

### SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
- **For non-emergency personnel**: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Avoid contact with eyes, skin, and clothing.
- **For emergency responders**: Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions**
Do not discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so.

**6.3. Methods and material for containment and cleaning up**
The product is immiscible with water and will sediment in water systems. Prevent entry into waterways, sewer, basements or confined areas.

- **Large Spills**: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination.
- **Small Spills**: Wipe up with absorbent material (e.g. cloth, fleece).

**6.4. Reference to other sections**
Never return spills to original containers for re-use. Clean contaminated surface thoroughly.

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Do not get in eyes, on skin, or on clothing. Avoid breathing mist or vapour. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities**
Store locked up. Store in original container. Keep container tightly closed in a cool, well-ventilated place. Store away from incompatible materials (see section 10 of the SDS).

**7.3. Specific end use(s)**
Epoxy adhesive.

### SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**
- **Occupational exposure limits**: No exposure limits noted for ingredient(s).
- **Biological limit values**: No biological exposure limits noted for the ingredient(s).
- **Recommended monitoring procedures**: Follow standard monitoring procedures.
**Derived no effect levels (DNELs)**
Not available.

**Predicted no effect concentrations (PNECs)**
Not available.

### 8.2. Exposure controls

**Appropriate engineering controls**
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**General information**
Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection**
Wear safety glasses with side shields (or goggles) and a face shield.

**Skin protection**

- **Hand protection**
  Wear appropriate chemical resistant gloves. Viton or nitrile rubber gloves are recommended. Frequent change is advisable.

- **Other**
  Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection**
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2).

**Thermal hazards**
Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures**
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Keep away from food and drink. Contaminated work clothing should not be allowed out of the workplace.

**Environmental exposure controls**
Inform appropriate managerial or supervisory personnel of all environmental releases.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

**Appearance**

- **Physical state**
  Paste.
- **Form**
  Paste.
- **Colour**
  Off-white.

**Odour**
Amine.

**Odour threshold**
Not available.

**pH**
11

**Melting point/freezing point**
Not available.

**Initial boiling point and boiling range**
Not available.

**Flash point**
120.0 °C (248.0 °F)

**Evaporation rate**
Not available.

**Flammability (solid, gas)**
Not applicable.

**Upper/lower flammability or explosive limits**

- **Flammability limit - lower (%)**
  Not available.

- **Flammability limit - upper (%)**
  Not available.

**Vapour pressure**
Not available.

**Vapour density**
Not available.

**Relative density**
1.04

**Relative density temperature**
25 °C (77 °F)

**Solubility(ies)**
Insoluble in water.

**Partition coefficient (n-octanol/water)**
No data available.

**Auto-ignition temperature**
Not available.
Decomposition temperature  Not available.
Viscosity  100000 cSt
Viscosity temperature  25 °C (77 °F)
Explosive properties  Not explosive.
Oxidising properties  Not oxidising.
9.2. Other information  No relevant additional information available.

SECTION 10: Stability and reactivity
10.1. Reactivity  The product is stable and non reactive under normal conditions of use, storage and transport.
10.2. Chemical stability  Material is stable under normal conditions.
10.3. Possibility of hazardous reactions  No dangerous reaction known under conditions of normal use.
10.6. Hazardous decomposition products  Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information
General information  Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure
Inhalation  May cause irritation to the mucous membranes and upper respiratory tract.
Skin contact  Causes severe skin burns. May cause an allergic skin reaction.
Eye contact  Causes serious eye damage.
Ingestion  Causes digestive tract burns.

11.1. Information on toxicological effects
Acute toxicity  Causes eye and skin burns.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amines, coco alkyl (CAS 61788-46-3)</td>
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<td></td>
</tr>
<tr>
<td>Acute</td>
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<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>1300 mg/kg</td>
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<tr>
<td>Phenol, styronated (CAS 61788-44-1)</td>
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<td></td>
</tr>
<tr>
<td>Acute</td>
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<tr>
<td>Dermal</td>
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</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Trimethylhexane-1,6-diamine (CAS 25513-64-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
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<tr>
<td>Dermal</td>
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</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
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<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>910 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation  Causes severe skin burns.
Serious eye damage/eye irritation  Causes serious eye damage.
Respiratory sensitisation  Due to partial or complete lack of data the classification is not possible.
Skin sensitisation  May cause an allergic skin reaction.
Germ cell mutagenicity  Due to partial or complete lack of data the classification is not possible.
Carcinogenicity  Due to partial or complete lack of data the classification is not possible.
Reproductive toxicity  Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure  Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Not likely, due to the form of the product.

Mixture versus substance information
The product is a mixture.

Other information
None known.

SECTION 12: Ecological information

12.1. Toxicity
Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol, styronated (CAS 61788-44-1)</td>
<td>Algae</td>
<td>EL50 3.14 mg/l, 72 hours</td>
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<td></td>
<td>Algae (Scenedesmus)</td>
<td>3.14 mg/l, 72 hours</td>
</tr>
<tr>
<td></td>
<td>Daphnia magna</td>
<td>1 - 10 mg/l, 48 hours</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LL50 14.8 mg/l, 96 hours</td>
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<tr>
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<td>Trimethylhexane-1,6-diamine (CAS 25513-64-8)</td>
<td>Algae</td>
</tr>
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<td>Algae (Scenedesmus)</td>
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<td>Daphnia magna</td>
<td>31.5 mg/l, 24 hours</td>
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<td></td>
<td>Fish</td>
<td>LC50 174 mg/l, 48 hours</td>
</tr>
<tr>
<td></td>
<td>Bacteria</td>
<td>EC50 Pseudomonas putida 89 mg/l, 17 hours</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
The product is not expected to be readily biodegradable.

12.3. Bioaccumulative potential
No data available.

Partition coefficient n-octanol/water (log Kow)
No data available.

Bioconcentration factor (BCF)
Not available.

12.4. Mobility in soil
The product is insoluble in water.

Mobility in general
No data available.

12.5. Results of PBT and vPvB assessment
Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects
None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Residual waste
Dispose of in accordance with local regulations.

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code
08 04 09*
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information
Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions
Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR
14.1. UN number
UN2735

14.2. UN proper shipping name
AMINES, LIQUID, CORROSIVE, N.O.S. (Amines, coco alkyl, Trimethylhexane-1,6-diamine)

14.3. Transport hazard class(es)
<table>
<thead>
<tr>
<th>Class</th>
<th>Subsidiary risk</th>
<th>Label(s)</th>
<th>Hazard No. (ADR)</th>
<th>Tunnel restriction code</th>
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</thead>
<tbody>
<tr>
<td>8</td>
<td>-</td>
<td>8</td>
<td>80</td>
<td>E</td>
</tr>
</tbody>
</table>
14.4. Packing group  II
14.5. Environmental hazards  Yes
14.6. Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.

RID
14.1. UN number  UN2735
14.2. UN proper shipping name  AMINES, LIQUID, CORROSIVE, N.O.S. (Amines, coco alkyl, Trimethylhexane-1,6-diamine)
14.3. Transport hazard class(es)
   Class  8
   Subsidiary risk  -
   Label(s)  8
14.4. Packing group  II
14.5. Environmental hazards  Yes
14.6. Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.

ADN
14.1. UN number  UN2735
14.2. UN proper shipping name  Amines, Liquid, N.o.s. (Amines, coco alkyl, Trimethylhexane-1,6-diamine)
14.3. Transport hazard class(es)
   Class  8
   Subsidiary risk  -
   Label(s)  8
14.4. Packing group  II
14.5. Environmental hazards  Yes
14.6. Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.

IATA
14.1. UN number  UN2735
14.2. UN proper shipping name  Amines, liquid, corrosive, n.o.s. (Amines, coco alkyl, Trimethylhexane-1,6-diamine)
14.3. Transport hazard class(es)
   Class  8
   Subsidiary risk  -
   Label(s)  8
14.4. Packing group  II
14.5. Environmental hazards  Yes
14.6. Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.

IMDG
14.1. UN number  UN2735
14.2. UN proper shipping name  AMINES, LIQUID, CORROSIVE, N.O.S. (Amines, coco alkyl, Trimethylhexane-1,6-diamine)
14.3. Transport hazard class(es)
   Class  8
   Subsidiary risk  -
   Label(s)  8
14.4. Packing group  II
14.5. Environmental hazards  Yes
14.6. Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  Not applicable.

General information  IMDG Regulated Marine Pollutant. The transportation information provided represents the regulatory transport classification of the product without consideration to packaging, quantity, or modal restrictions and exceptions. It is the user's responsibility to determine the appropriate packaging and modal requirements and/or limitations for the product quantity being shipped.
SECTION 15: Regulatory information

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

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended
  Not listed.
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended
  Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended
  Not listed.
  Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
  Not listed.

Authorisations

- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended
  Not listed.

Restrictions on use

- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
  Not listed.
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.
  Not listed.

Other EU regulations

- Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended
  Amines, coco alkyl (CAS 61788-46-3)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

- DNEL: Derived No-Effect Level.
- PNEC: Predicted No-Effect Concentration.
- PBT: Persistent, bioaccumulative and toxic.
- vPvB: Very Persistent and very Bioaccumulative.
- LD50: Lethal Dose, 50%.
- LC50: Lethal Concentration, 50%.
- EC50: Effective Concentration, 50%.
- HSDB® - Hazardous Substances Data Bank

References

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- 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.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
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.

Training information
Follow training instructions when handling this material.

Disclaimer
The information in the sheet was written based on the best knowledge and experience currently available.