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

1.1. Product identifier
Loctite Double Bubble A

Contains:
RP Bisphenol F-epichlorohydrin resin, MW<=700
Trimethylolpropane triglycidyl ether

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Part A of 2-K-Epoxy Adhesive

1.3. Details of the supplier of the safety data sheet
Henkel Ltd
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain
Phone: +44 1442 278000
Fax-no.: +44 1442 278071

ua-productssafety.uk@uk.henkel.com

1.4. Emergency telephone number
24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):
Skin irritation
H315 Causes skin irritation.

Serious eye irritation
H319 Causes serious eye irritation.

Skin sensitizer
H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment
H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):
Hazard pictogram:

Signal word: Warning

Hazard statement:
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statement:
- P273 Avoid release to the environment.
- P280 Wear protective gloves.

Precautionary statement:
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards
None if used properly.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:
Part A of two part adhesive

Declaration of the ingredients according to CLP (EC) No 1272/2008:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>EC Number REACH-Reg No.</th>
<th>content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP Bisphenol F-epichlorohydrin resin, MW&lt;700 28064-14-4</td>
<td>01-2119454392-40</td>
<td>50-100%</td>
<td>Skin Irrit. 2  H315  Skin Sens. 1  H317  Aquatic Chronic 2  H411</td>
</tr>
<tr>
<td>Trimethylolpropane triglycidyl ether 30499-70-8</td>
<td></td>
<td>20-40%</td>
<td>Skin Irrit. 2; Dermal  H315  Skin Sens. 1; Dermal  H317  Eye Irrit. 2  H319  Aquatic Chronic 3  H412</td>
</tr>
</tbody>
</table>

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:
Rinse with running water and soap.
Obtain medical attention if irritation persists.
Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed
SKIN: Rash, Urticaria.
EYE: Irritation, conjunctivitis.
SKIN: Redness, inflammation.

4.3. Indication of any immediate medical attention and special treatment needed
See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:
None known

5.2. Special hazards arising from the substance or mixture
Oxides of carbon.

5.3. Advice for firefighters
Wear self-contained breathing apparatus.
Wear protective equipment.

Additional information:
In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid skin and eye contact.

6.2. Environmental precautions
Do not let product enter drains.
Waste disposal with the approval of the responsible local authority.

6.3. Methods and material for containment and cleaning up
For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.
Wash spillage site thoroughly with soap and water or detergent solution.

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
The normal precautions for dealing with chemical products should be taken.
Avoid skin and eye contact.

Hygiene measures:
Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.
Good industrial hygiene practices should be observed.
7.2. Conditions for safe storage, including any incompatibilities
Store only in the original container.
Store in a cool, dry place.

7.3. Specific end use(s)
Part A of 2-K-Epoxy Adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain
None

Occupational Exposure Limits

Valid for
Ireland
None

Biological Exposure Indices:
None

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/extraction.

Respiratory protection:
Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A

Hand protection:
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Skin protection:
Wear suitable protective clothing.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Appearance: liquid
Colourless
Odor: Slight
Odour threshold: No data available / Not applicable

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>&gt; 200 °C (&gt; 392 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 100,00 °C (&gt; 212 °F)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Density</td>
<td>1,2000 g/cm³</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>60,000,00 mPa.s</td>
</tr>
<tr>
<td>Viscosity (kinematic)</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Solubility (qualitative)</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Solidification temperature</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available / Not applicable</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available / Not applicable</td>
</tr>
</tbody>
</table>

9.2. Other information
No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
Reaction with strong bases
Reaction with strong acids.
Avoid contact with amines.
Reaction with strong oxidants.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
Stable under normal conditions of storage and use.

10.5. Incompatible materials
None if used properly.

10.6. Hazardous decomposition products
carbon oxides.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Oral toxicity:
May cause irritation to the digestive tract.

Skin irritation:
Causes skin irritation.

Eye irritation:
Causes serious eye irritation.

Sensitizing:
May cause an allergic skin reaction.

Acute oral toxicity:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Value type</th>
<th>Value</th>
<th>Route of application</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP Bisphenol F-epichlorohydrin resin, MW&lt;=700 28064-14-4 Trimethylolpropane triglycidyl ether 30499-70-8</td>
<td>LD50</td>
<td>&gt; 5.000 mg/kg</td>
<td>oral</td>
<td>rat</td>
<td>OECD Guideline 401 (Acute Oral Toxicity)</td>
<td></td>
</tr>
<tr>
<td>Trimethylolpropane triglycidyl ether 30499-70-8</td>
<td>LD50</td>
<td>&gt; 2.000 mg/kg</td>
<td>oral</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Acute dermal toxicity:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Value type</th>
<th>Value</th>
<th>Route of application</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trimethylolpropane triglycidyl ether 30499-70-8</td>
<td>LD50</td>
<td>&gt; 2.000 mg/kg</td>
<td>dermal</td>
<td>rat</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Serious eye damage/irritation:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Result</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP Bisphenol F-epichlorohydrin resin, MW&lt;=700 28064-14-4</td>
<td>not irritating</td>
<td></td>
<td>rabbit</td>
<td>OECD Guideline 405 (Acute Eye Irritation / Corrosion)</td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

General ecological information:
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

12.1. Toxicity

Ecotoxicity:
Toxic to aquatic life with long lasting effects.
Do not empty into drains / surface water / ground water.
12.2. Persistence and degradability

Persistence and Biodegradability:
The product is not biodegradable.

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Value type</th>
<th>Acute Toxicity Study</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP Bisphenol F-epichlorohydrin resin, MW≤700 28064-14-4</td>
<td>EC50</td>
<td>3.5 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Mobility:
Cured adhesives are immobile.

Bioaccumulative potential:
No data available for the product.

12.5. Results of PBT and vPvB assessment

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>PBT/vPvB</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP Bisphenol F-epichlorohydrin resin, MW≤700 28064-14-4</td>
<td>Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.</td>
</tr>
</tbody>
</table>

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:
After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code
08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances
### SECTION 14: Transport information

#### 14.1. UN number

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>3082</td>
<td>3082</td>
<td>3082</td>
<td>3082</td>
<td>3082</td>
</tr>
</tbody>
</table>

#### 14.2. UN proper shipping name

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)</td>
</tr>
</tbody>
</table>

#### 14.3. Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
</tbody>
</table>

#### 14.4. Packing group

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>III</td>
<td>III</td>
<td>III</td>
<td>III</td>
</tr>
</tbody>
</table>

#### 14.5. Environmental hazards

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>Marine pollutant</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

#### 14.6. Special precautions for user

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

**Tunnelcode:** (E)

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

---

### SECTION 15: Regulatory information

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

**VOC content**

< 3.00 %

*(2010/75/EC)*
15.2. Chemical safety assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Further information:
This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Label elements (DPD):
- Xi - Irritant
- N - Dangerous for the environment

Risk phrases:
- R36/38 Irritating to eyes and skin.
- R43 May cause sensitisation by skin contact.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:
- S24 Avoid contact with skin.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S28 After contact with skin, wash immediately with plenty of water and soap.
- S37 Wear suitable gloves.
- S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Additional labeling:
Contains epoxy constituents. See information supplied by the manufacturer.

Contains:
- RP Bisphenol F-epichlorohydrin resin, MW<=700,
- Trimethylolpropane triglycidyl ether

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Loctite Double Bubble B

Contains:
2,4,6-Tris(dimethylaminomethyl)phenol

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Part B of 2-Component Epoxy Adhesive.

1.3. Details of the supplier of the safety data sheet
Henkel Ltd
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000
Fax-no.: +44 1442 278071

ua-productsafety.uk@uk.henkel.com

1.4. Emergency telephone number
24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

<table>
<thead>
<tr>
<th>Skin corrosion</th>
<th>Category 1C</th>
</tr>
</thead>
<tbody>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
</tbody>
</table>

2.2. Label elements

Label elements (CLP):

<table>
<thead>
<tr>
<th>Hazard pictogram:</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Hazard Pictogram" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal word:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazard statement:</th>
</tr>
</thead>
<tbody>
<tr>
<td>H314 Causes severe skin burns and eye damage.</td>
</tr>
</tbody>
</table>
Precautionary statement: P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement: 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 CENTER or doctor.

2.3. Other hazards
None if used properly.
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>EC Number REACH-Reg No.</th>
<th>content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2</td>
<td>202-013-9 01-2119560597-27</td>
<td>5- &lt; 10%</td>
<td>Skin Corr. 1C H314 Acute Tox. 4; Oral H302</td>
</tr>
<tr>
<td>Bis[(dimethylamino)methyl]phenol 71074-89-0</td>
<td>275-162-0</td>
<td>1- &lt; 5%</td>
<td>Skin Corr. 1B H314</td>
</tr>
<tr>
<td>Allyl hexanoate 123-68-2</td>
<td>204-642-4</td>
<td>0,1- &lt; 0,25%</td>
<td>Acute Tox. 3; Oral H301 Acute Tox. 3; Dermal H311 Acute Tox. 3; Inhalation H331 Aquatic Chronic 3 H412 Aquatic Acute 1 H400</td>
</tr>
</tbody>
</table>

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:
Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed
Causes burns.
4.3. Indication of any immediate medical attention and special treatment needed
See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:
High pressure waterjet

5.2. Special hazards arising from the substance or mixture
In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:
In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes.
Wear protective equipment.
Ensure adequate ventilation.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up
For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.
Wash spillage site thoroughly with soap and water or detergent solution.

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid skin and eye contact.
See advice in section 8

Hygiene measures:
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities
Store only in the original container.
Store in a cool, dry place.

7.3. Specific end use(s)
Part B of 2-Component Epoxy Adhesive.
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

None

Occupational Exposure Limits

Valid for
Ireland

None

Predicted No-Effect Concentration (PNEC):

<table>
<thead>
<tr>
<th>Name on list</th>
<th>Environmental Compartment</th>
<th>Exposure period</th>
<th>Value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2</td>
<td>aqua (freshwater)</td>
<td></td>
<td>0.084 mg/L</td>
<td></td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2</td>
<td>aqua (marine water)</td>
<td></td>
<td>0.0084 mg/L</td>
<td></td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2</td>
<td>aqua (intermittent releases)</td>
<td></td>
<td>0.84 mg/L</td>
<td></td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2</td>
<td>sewage treatment plant (STP)</td>
<td></td>
<td>0.2 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

Derived No-Effect Level (DNEL):

<table>
<thead>
<tr>
<th>Name on list</th>
<th>Application Area</th>
<th>Route of Exposure</th>
<th>Health Effect</th>
<th>Exposure Time</th>
<th>Value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2</td>
<td>Workers</td>
<td>inhalation</td>
<td>Long term exposure - systemic effects</td>
<td>0.31 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2</td>
<td>Workers</td>
<td>dermal</td>
<td>Long term exposure - systemic effects</td>
<td>0.2 mg/kg bw/day</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate 123-68-2</td>
<td>Workers</td>
<td>inhalation</td>
<td>Long term exposure - systemic effects</td>
<td>15 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate 123-68-2</td>
<td>Workers</td>
<td>dermal</td>
<td>Long term exposure - systemic effects</td>
<td>4.3 mg/kg bw/day</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate 123-68-2</td>
<td>General population</td>
<td>inhalation</td>
<td>Long term exposure - systemic effects</td>
<td>3.7 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate 123-68-2</td>
<td>General population</td>
<td>dermal</td>
<td>Long term exposure - systemic effects</td>
<td>2.1 mg/kg bw/day</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate 123-68-2</td>
<td>General population</td>
<td>oral</td>
<td>Long term exposure - systemic effects</td>
<td>2.1 mg/kg bw/day</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Biological Exposure Indices:**
None

**8.2. Exposure controls:**

**Engineering controls:**
Ensure good ventilation/extraction.

**Respiratory protection:**
Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area.
Filter type: A (EN 14387)

**Hand protection:**
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**
Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.
Protective eye equipment should conform to EN166.

**Skin protection:**
Wear suitable protective clothing.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

**Advices to personal protection equipment:**
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

**SECTION 9: Physical and chemical properties**

<table>
<thead>
<tr>
<th><strong>9.1. Information on basic physical and chemical properties</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
</tr>
<tr>
<td><strong>pH</strong></td>
</tr>
<tr>
<td><strong>Initial boiling point</strong></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
</tr>
<tr>
<td><strong>Density</strong></td>
</tr>
<tr>
<td><strong>Bulk density</strong></td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
</tr>
<tr>
<td><strong>Viscosity (kinematic)</strong></td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
</tr>
<tr>
<td><strong>Solubility (qualitative)</strong></td>
</tr>
</tbody>
</table>
9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity with strong acids.
Reactivity with strong oxidants.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
Stable under normal conditions of storage and use.

10.5. Incompatible materials
See section reactivity.

10.6. Hazardous decomposition products
carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Oral toxicity:
May cause irritation to the digestive tract.

Skin irritation:
Causes severe skin burns and eye damage.

Eye irritation:
Avoid eye contact.
Corrosive

Acute oral toxicity:

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Value type</th>
<th>Value</th>
<th>Route of application</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>LD50</td>
<td>1,200 mg/kg</td>
<td>oral</td>
<td></td>
<td>rat</td>
<td>not specified</td>
</tr>
<tr>
<td>90-72-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Acute inhalative toxicity:**

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>Value type</th>
<th>Value</th>
<th>Route of application</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
</table>

**Acute dermal toxicity:**

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>Value type</th>
<th>Value</th>
<th>Route of application</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allyl hexanoate</td>
<td>123-68-2</td>
<td>LD50</td>
<td>820 mg/kg</td>
<td>dermal</td>
<td></td>
<td>rabbit</td>
<td>OECD Guideline 402 (Acute Dermal Toxicity)</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation:**

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>Result</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6- Tris(dimethylaminomethyl) phenol</td>
<td>90-72-2</td>
<td>corrosive</td>
<td>4 h</td>
<td>rabbit</td>
<td>OECD Guideline 404 (Acute Dermal Irritation / Corrosion)</td>
</tr>
<tr>
<td>Allyl hexanoate</td>
<td>123-68-2</td>
<td>not irritating</td>
<td></td>
<td>Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE)</td>
<td>OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)</td>
</tr>
</tbody>
</table>

**Serious eye damage/irritation:**

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>Result</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allyl hexanoate</td>
<td>123-68-2</td>
<td>not irritating</td>
<td></td>
<td>rabbit</td>
<td>OECD Guideline 405 (Acute Eye Irritation / Corrosion)</td>
</tr>
</tbody>
</table>

**Respiratory or skin sensitization:**

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>Result</th>
<th>Test type</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6- Tris(dimethylaminomethyl) phenol</td>
<td>90-72-2</td>
<td>not sensitising</td>
<td>Buehler test</td>
<td>guinea pig</td>
<td>OECD Guideline 406 (Skin Sensitisation)</td>
</tr>
<tr>
<td>Allyl hexanoate</td>
<td>123-68-2</td>
<td>not sensitising</td>
<td>Guinea pig maximisation test</td>
<td>guinea pig</td>
<td>OECD Guideline 406 (Skin Sensitisation)</td>
</tr>
</tbody>
</table>

**Germ cell mutagenicity:**

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS-No.</th>
<th>Result</th>
<th>Type of study / Route of administration</th>
<th>Metabolic activation / Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6- Tris(dimethylaminomethyl) phenol</td>
<td>90-72-2</td>
<td>negative</td>
<td>bacterial reverse mutation assay (e.g Ames test)</td>
<td>with and without</td>
<td>OECD Guideline 471 (Bacterial Reverse Mutation Assay)</td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate</td>
<td>123-68-2</td>
<td>negative</td>
<td>in vitro mammalian chromosome aberration test</td>
<td>with and without</td>
<td>OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)</td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate</td>
<td>123-68-2</td>
<td>negative</td>
<td>mammalian cell gene mutation assay</td>
<td>with and without</td>
<td>OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)</td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate</td>
<td>123-68-2</td>
<td>negative</td>
<td>bacterial reverse mutation assay (e.g Ames test)</td>
<td>with and without</td>
<td>OECD Guideline 471 (Bacterial Reverse Mutation Assay)</td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate</td>
<td>123-68-2</td>
<td>negative</td>
<td>mammalian cell gene mutation assay</td>
<td>with and without</td>
<td>OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)</td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate</td>
<td>123-68-2</td>
<td>negative</td>
<td>in vitro mammalian cell micronucleus test</td>
<td>with and without</td>
<td>OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)</td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate</td>
<td>123-68-2</td>
<td>negative</td>
<td>intraperitoneal</td>
<td>mouse</td>
<td>not specified</td>
<td></td>
</tr>
</tbody>
</table>
Reproductive toxicity:

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Result / Classification</th>
<th>Species</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allyl hexanoate 123-68-2</td>
<td>NOAEL P = 30 mg/kg</td>
<td>oral: gavage</td>
<td></td>
<td>rat</td>
<td>OECD Preliminary Reproduction Toxicity Screening Test (Precursor Protocol of GL-421)</td>
</tr>
</tbody>
</table>

**SECTION 12: Ecological information**

**General ecological information:**

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

**12.1. Toxicity**

**Ecotoxicity:**

*Do not empty into drains / surface water / ground water.*

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Value</th>
<th>Value type</th>
<th>Acute Toxicity Study</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)ph enol 90-72-2</td>
<td>LC50</td>
<td>153 mg/l</td>
<td>Fish</td>
<td>96 h</td>
<td>Brachydanio rerio (new name: Danio rerio)</td>
<td>ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)]) OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)ph enol 90-72-2</td>
<td>EC50</td>
<td>84 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>Scenedesmus subspicatus (new name: Desmodesmus subspicatus)</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test) DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)</td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)ph enol 90-72-2</td>
<td>NOEC</td>
<td>6.25 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>Scenedesmus subspicatus (new name: Desmodesmus subspicatus)</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)ph enol 90-72-2</td>
<td>EC0</td>
<td>27 mg/l</td>
<td>Bacteria</td>
<td>16 h</td>
<td>Pseudomonas putida</td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate 123-68-2</td>
<td>LC50</td>
<td>0.117 mg/l</td>
<td>Fish</td>
<td>96 h</td>
<td>Brachydanio rerio (new name: Danio rerio)</td>
<td>OECD Guideline 203 (Fish, Acute Toxicity Test)</td>
</tr>
<tr>
<td>Allyl hexanoate 123-68-2</td>
<td>EC50</td>
<td>2 mg/l</td>
<td>Daphnia</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td></td>
</tr>
<tr>
<td>Allyl hexanoate 123-68-2</td>
<td>NOEC</td>
<td>0.158 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>Desmodesmus subspicatus</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
</tr>
<tr>
<td></td>
<td>EC50</td>
<td>&gt; 4.6 mg/l</td>
<td>Algae</td>
<td>72 h</td>
<td>Desmodesmus subspicatus</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
</tr>
</tbody>
</table>

**12.2. Persistence and degradability**

**Persistence and Biodegradability:**

The product is not biodegradable.

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Result</th>
<th>Route of application</th>
<th>Degradability</th>
<th>Method</th>
</tr>
</thead>
</table>

MSDS-No.: 328945   Loctite Double Bubble B   V006.0  Page 8 of 11
12.3. Bioaccumulative potential / 12.4. Mobility in soil

**Mobility:**
Cured adhesives are immobile.

**Bioaccumulative potential:**
No data available.

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>LogPow</th>
<th>Bioconcentration factor (BCF)</th>
<th>Exposure time</th>
<th>Species</th>
<th>Temperature</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2</td>
<td>-0.66</td>
<td></td>
<td></td>
<td></td>
<td>21.5 °C</td>
<td>EPA OPPTS 830.7550 (Partition Coefficient, n-octanol / H2O, Shake Flask Method)</td>
</tr>
<tr>
<td>Allyl hexanoate 123-68-2</td>
<td>3.191</td>
<td></td>
<td></td>
<td></td>
<td>20 °C</td>
<td>OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)</td>
</tr>
</tbody>
</table>

**12.5. Results of PBT and vPvB assessment**

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>PBT/vPvB</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2</td>
<td>Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.</td>
</tr>
</tbody>
</table>

**12.6. Other adverse effects**
No data available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**
Product disposal:
Collection and delivery to recycling enterprise or other registered elimination institution.
Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:
After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

**Waste code**
08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances
The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.
### SECTION 14: Transport information

#### 14.1. UN number

<table>
<thead>
<tr>
<th></th>
<th>ADR</th>
<th>RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>2735</td>
<td>2735</td>
<td>2735</td>
<td>2735</td>
<td>2735</td>
</tr>
</tbody>
</table>

#### 14.2. UN proper shipping name

<table>
<thead>
<tr>
<th></th>
<th>ADR</th>
<th>RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-Tris(dimethyl amino methyl) phenole, Bis[(dimethylamino)methyl]phenol)</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-Tris(dimethyl amino methyl) phenole, Bis[(dimethylamino)methyl]phenol)</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-Tris(dimethyl amino methyl) phenole, Bis[(dimethylamino)methyl]phenol)</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-Tris(dimethyl amino methyl) phenole, Bis[(dimethylamino)methyl]phenol)</td>
<td>Amines, liquid, corrosive, n.o.s. (2,4,6-Tris(dimethyl amino methyl) phenole, Bis[(dimethylamino)methyl]phenol)</td>
</tr>
</tbody>
</table>

#### 14.3. Transport hazard class(es)

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

#### 14.4. Packing group

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

#### 14.5. Environmental hazards

<table>
<thead>
<tr>
<th></th>
<th>ADR</th>
<th>RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental hazards</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

#### 14.6. Special precautions for user

<table>
<thead>
<tr>
<th></th>
<th>ADR</th>
<th>RID</th>
<th>ADN</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special precautions for user</td>
<td>not applicable</td>
<td>Tunnelcode: (E)</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

### SECTION 15: Regulatory information

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

| VOC content | < 3,00 % Combined A/B |
15.2. Chemical safety assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H331 Toxic if inhaled.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

Further information:
This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Label elements (DPD):
- Xi - Irritant

Risk phrases:
- R36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:
- S23 Do not breathe vapour/spray.
- S25 Avoid contact with eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37 Wear suitable gloves.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.