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

1.1 Product identifier:
Trade name: **DENEPOX 40 Component A**

1.2 Relevant identified uses of the substance or mixture, and uses advised against:
Waterproofing.

**Identified uses advised against**: No further relevant information available.

1.3 Details of the supplier of the safety data sheet:
Manufacturer/supplier:
De Neef Construction Chemicals BVBA
Industriepark 8,
2220 Heist-op-den-Berg,
Belgium.

Tel: +32 15 24 93 60
Fax: +32 15 24 80 72

Further information obtainable from: conchem@deneef.com

1.4 Emergency telephone number:
+44 (0)1235 239 670 (Multi-lingual – 24 Hours)
+44 (0)1235 239 671 (Dedicated phone line for Arabic speaking countries - 24 Hours)
EHS Department, Cikarang, Indonesia - Tel. No.: - (62-21) 893-4260

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008
Skin Irrit. 2  H315  Causes skin irritation.
Eye Irrit. 2  H319  Causes serious eye irritation.
Skin Sens. 1  H317  May cause an allergic skin reaction.
Aquatic Chronic 2  H411  Toxic to aquatic life with long lasting effects.

2.2 Label elements:
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

Hazard pictograms

![Hazard Pictograms](image)

GHS07  GHS09

**Signal word** Warning

**Hazard-determining components of labelling:**
1,6-bis(2,3-epoxypropoxy)hexane
Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)

(Contd. on page 2)
Trade name: **DENEPOX 40 Component A**

Bisphenol-F epoxy resin

**Hazard statements**

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

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of water.
P337+P313 If eye irritation persists: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

**Additional information:**

Contains epoxy constituents. May produce an allergic reaction.

**2.3 Other hazards:**

**Results of PBT and vPvB assessment:**

**PBT:** Not applicable.
**vPvB:** Not applicable.

---

### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterization: Mixtures:

**Description:** Mixture of substances listed below with non-hazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components</th>
<th>Description</th>
<th>CAS: 16096-31-4</th>
<th>EINECS: 240-260-4</th>
<th>Reg.nr.: 01-2119463471-41-XXXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,6-bis(2,3-epoxypropoxy)hexane</td>
<td>30-50%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 25068-38-6</th>
<th>NLP: 500-033-5</th>
<th>Index number: 603-074-00-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight &lt; 700)</td>
<td>25-30%</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 55492-52-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol-F epoxy resin</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317</td>
</tr>
</tbody>
</table>

**Additional information:** For the wording of the listed risk phrases refer to section 16.

---

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures:

**General information:** Get medical advice/attention if you feel unwell.

**After inhalation:** No special measures required.

**After skin contact:** Wash with plenty of soap and water.

**After eye contact:** Rinse cautiously with water for several minutes.

**After swallowing:** Rinse mouth.
Trade name: DENEPOX 40 Component A

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed:
May cause sensitisation by skin contact.
Irritating to eyes.

4.3 Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:
Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture:
Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters:
Protective equipment: Wear self-contained respiratory protective device.
Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:
Prevent formation of aerosols.
Avoid contact with skin.
Avoid contact with eyes.
Trade name: DENEPOX 40 Component A

Do not eat, drink or smoke when using this product. Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. Use only outdoors or in a well-ventilated area.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:

STORAGE

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions:
- Protect from frost.
- Store in a dry place.
- Keep cool.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters:
Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: Based on the lists valid at the date of SDS creation.

8.2 Exposure controls:

PERSONAL PROTECTIVE EQUIPMENT

General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:
Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Protective gloves.

Material of gloves: Rubber gloves.

Penetration time of glove material:
The exact breakthrough time has to be determined by the manufacturer of the protective gloves and has to be observed.
### Eye protection:

- Safety glasses with side shield protection.

- A face shield should also be worn if there is potential exposure to splash or spray.

### Body protection:

- Use personal protective equipment as required.
- Take off contaminated clothing.

## SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL INFORMATION</strong></td>
<td></td>
</tr>
<tr>
<td>Appearance:</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Form:</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Colour:</td>
<td>Yellow.</td>
</tr>
<tr>
<td>Odour:</td>
<td>Typical.</td>
</tr>
<tr>
<td>Odour threshold:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>pH-value (~):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Change in conditions:</td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
<td>Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>&gt; 200 °C</td>
</tr>
<tr>
<td>Flash point:</td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td>Flammability (solid, gaseous):</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Self-igniting:</td>
<td>Product is not self-igniting.</td>
</tr>
<tr>
<td>Danger of explosion:</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>EXPLOSION LIMITS</strong></td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>VOC Content:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Density at 20 °C:</td>
<td>~ 1.1 g/cm³</td>
</tr>
<tr>
<td>Relative density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in/Miscibility with:</td>
<td></td>
</tr>
<tr>
<td>Water:</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>VISCOSITY</strong></td>
<td></td>
</tr>
<tr>
<td>Dynamic at 20 °C:</td>
<td>90 mPas</td>
</tr>
<tr>
<td>Kinematic:</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>
Trade name: **DENEPOX 40 Component A**

### SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal conditions.

10.2 Chemical stability:

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide.

### SECTION 11: Toxicological information

11.1 Information on toxicological effects:

#### ACUTE TOXICITY

**LD/LC50 values relevant for classification:**

<table>
<thead>
<tr>
<th>Compound</th>
<th>LC50, 48h</th>
<th>LC50, 96h</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6 Bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight &lt; 700)</td>
<td>2.8 mg/l (daphnia magna)</td>
<td>220 mg/l (algae)</td>
</tr>
<tr>
<td></td>
<td>3.6 mg/l (bacterial)</td>
<td>2.4 mg/l (fish)</td>
</tr>
</tbody>
</table>

**Primary irritant effect:**

**Skin corrosion/irritation**
Causes skin irritation.

**Serious eye damage/irritation**
Causes serious eye irritation.

**Respiratory or skin sensitisation**
May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.
SECTION 12: Ecological information

12.1 Toxicity:

AQUATIC TOXICITY

16096-31-4 1,6-bis(2,3-epoxypropoxy)hexane
EC50, 96h 30 mg/l (fish) (OECD 203)

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

ECOTOXICAL EFFECTS

Remark: Toxic for fish

ADDITIONAL ECOLOGICAL INFORMATION

General notes:
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

UNCLEANED PACKAGING

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA

UN3082
### 14.2 UN proper shipping name

| ADR, IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700) |
| IMDG     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700), MARINE POLLUTANT |

### 14.3 Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR, IMDG, IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
</tr>
<tr>
<td>9 Miscellaneous dangerous substances and articles.</td>
</tr>
<tr>
<td>Label</td>
</tr>
<tr>
<td>9</td>
</tr>
</tbody>
</table>

### 14.4 Packing group

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

### 14.5 Environmental hazards:

- **Marine pollutant:** Yes
- **Special marking (ADR):** Symbol (fish and tree)
- **Special marking (IATA):** Symbol (fish and tree)

### 14.6 Special precautions for user:

- **Danger code (Kemler):** 90
- **EMS Number:** F-A,S-F

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

- **Not Regulated**

### Transport/Additional information:

<table>
<thead>
<tr>
<th>ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited quantities (LQ)</td>
</tr>
<tr>
<td>Excepted quantities (EQ)</td>
</tr>
<tr>
<td>Maximum net quantity per inner packaging: 30 ml</td>
</tr>
<tr>
<td>Maximum net quantity per outer packaging: 1000 ml</td>
</tr>
<tr>
<td>Transport category</td>
</tr>
<tr>
<td>Tunnel restriction code</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited quantities (LQ)</td>
</tr>
<tr>
<td>Excepted quantities (EQ)</td>
</tr>
<tr>
<td>Maximum net quantity per inner packaging: 30 ml</td>
</tr>
<tr>
<td>Maximum net quantity per outer packaging: 1000 ml</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UN &quot;Model Regulation&quot;:</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (NUMBER AVERAGE MW ≤ 700), 9, III</td>
</tr>
</tbody>
</table>
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
See Section 2 for hazard identification.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

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.

Department issuing SDS:
EHS Department,
Asia Pacific Region
Grace Construction Products
SCIP, Canlubang, Calamba City, Laguna
Philippines 4028
Tel: ++63 (02) 884-0300, Fax: ++63 (49) 549-7778

The first date of preparation: 01.09.2015
Number of revision times and the latest revision date: 1.0 / 01.09.2015
1.1 Product identifier:
Trade name: **DENEPOX 40 Component B**

1.2 Relevant identified uses of the substance or mixture, and uses advised against:
Waterproofing.

**Identified uses advised against:** No further relevant information available.

1.3 Details of the supplier of the safety data sheet:
Manufacturer/supplier:
De Neef Construction Chemicals BVBA
Industriepark 8,
2220 Heist-op-den-Berg,
Belgium.

Tel: +32 15 24 93 60
Fax: +32 15 24 80 72

Further information obtainable from: conchem@deneef.com

1.4 Emergency telephone number:
+44 (0)1235 239 670 (Multi-lingual – 24 Hours)
+44 (0)1235 239 671 (Dedicated phone line for Arabic speaking countries - 24 Hours)
EHS Department, Cikarang, Indonesia - Tel. No.: - (62-21) 893-4260

---

**SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No 1272/2008**

- Acute Tox. 4  H302  Harmful if swallowed.
- Acute Tox. 4  H312  Harmful in contact with skin.
- Skin Corr. 1B  H314  Causes severe skin burns and eye damage.
- Eye Dam. 1  H318  Causes serious eye damage.
- Skin Sens. 1  H317  May cause an allergic skin reaction.
- Repr. 2  H361f  Suspected of damaging fertility.
- Aquatic Chronic 3 H412  Harmful to aquatic life with long lasting effects.

2.2 Label elements:

**Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**

- GHS05
- GHS07
- GHS08

**Signal word** Danger
Trade name: DENEPOX 40 Component B

Hazard-determining components of labelling:
- Isophorondiamine
- Bisphenol A
- 2,4,6-tris(dimethylaminomethyl)phenol
- Benzyl alcohol

Hazard statements:
- H302+H312 Harmful if swallowed or in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H361f Suspected of damaging fertility.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P273 Avoid release to the environment.
- 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.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Hazard description: Corrosive

2.3 Other hazards:

Results of PBT and vPvB assessment:
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterization: Mixtures:

Description: Mixture of substances listed below with non-hazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 2855-13-2 EINECS: 220-666-8</td>
<td>Isophorondiamine</td>
</tr>
<tr>
<td>Index number: 612-067-00-9</td>
<td>Skin Corr. 1B, H314</td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>CAS: 100-51-6 EINECS: 202-859-9</td>
<td>Benzyl alcohol</td>
</tr>
<tr>
<td>Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-XXXX</td>
<td>Acute Tox. 4, H302; Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>CAS: 90-72-2 EINECS: 202-013-9</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
</tr>
<tr>
<td>Index number: 603-069-00-0</td>
<td>Skin Corr. 1B, H314</td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>CAS: 80-05-7 EINECS: 201-245-8</td>
<td>Bisphenol A</td>
</tr>
<tr>
<td>Index number: 604-030-00-0</td>
<td>Repr. 2, H361f</td>
</tr>
<tr>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td>Skin Sens. 1, H317; STOT SE 3, H335</td>
</tr>
</tbody>
</table>

Additional information: For the wording of the listed risk phrases refer to section 16.
SECTION 4: First aid measures

4.1 Description of first aid measures:
General information: Get medical advice/attention if you feel unwell.
After inhalation: No special measures required.
After skin contact: Wash with plenty of soap and water.
After eye contact: Rinse cautiously with water for several minutes.
After swallowing:
Rinse mouth.
Do NOT induce vomiting.
Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed:
Causes burns.
May cause sensitisation by skin contact.
Harmful if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:
Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters:
Protective equipment: Wear self-contained respiratory protective device.
Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:
Use neutralising agent.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:
Risk of serious damage to eyes.
Prevent formation of aerosols.
Do not eat, drink or smoke when using this product.
Store in a well-ventilated place. Keep container tightly closed.
Keep only in original container.
Use only outdoors or in a well-ventilated area.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:
STORAGE

Information about storage in one common storage facility: No special measures required.
Further information about storage conditions:
Protect from frost.
Store in a dry place.
Keep cool.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-51-6 Benzy1 alcohol</td>
<td>Long-term value: 10 ppm</td>
</tr>
<tr>
<td>WEEL (USA)</td>
<td>Long-term value: 10 ppm</td>
</tr>
<tr>
<td>80-05-7 bisphenol A</td>
<td>Long-term value: 10 mg/m³</td>
</tr>
</tbody>
</table>

Additional information: Based on the lists valid at the date of SDS creation.

8.2 Exposure controls:
PERSONAL PROTECTIVE EQUIPMENT

General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection:
Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

**Protection of hands:** Protective gloves.

**Material of gloves:** Rubber gloves.

**Penetration time of glove material:**
The exact breakthrough time has to be determined by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

- Safety glasses with side shield protection.
- A face shield should also be worn if there is potential exposure to splash or spray.

**Body protection:**
Use personal protective equipment as required.
Take off contaminated clothing.

---

**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties:

<table>
<thead>
<tr>
<th>GENERAL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong></td>
</tr>
<tr>
<td>Form: Liquid.</td>
</tr>
<tr>
<td>Colour: Yellow-brown</td>
</tr>
<tr>
<td>Odour: Amine-like.</td>
</tr>
<tr>
<td>Odour threshold: Not determined.</td>
</tr>
<tr>
<td>pH-value (~): Not determined.</td>
</tr>
<tr>
<td>Change in conditions:-</td>
</tr>
<tr>
<td>Melting point/Melting range: Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range: &gt; 200 °C</td>
</tr>
<tr>
<td>Flash point: &gt; 100 °C</td>
</tr>
<tr>
<td>Flammability (solid, gaseous): Not applicable.</td>
</tr>
<tr>
<td>Decomposition temperature: Not determined.</td>
</tr>
<tr>
<td>Self-igniting: Product is not self-igniting.</td>
</tr>
<tr>
<td>Danger of explosion: Product does not present an explosion hazard.</td>
</tr>
</tbody>
</table>

**EXPLOSION LIMITS**

- Lower: Not determined.
- Upper: Not determined.
Trade name: **DENEPOX 40 Component B**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC Content</td>
<td>7,50 %</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Density at 20 °C</td>
<td>~ 0,9 g/cm³</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in/Water</td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>VISCOSITY</strong></td>
<td></td>
</tr>
<tr>
<td>Dynamic at 20 °C</td>
<td>25 mPas</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>9.2 Other information:</strong></td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

**10.1 Reactivity:** Stable under normal conditions.

**10.2 Chemical stability:**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**10.4 Conditions to avoid:** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide.

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects:**

**ACUTE TOXICITY**

Harmful if swallowed or in contact with skin.

**LD/LC50 values relevant for classification:**

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50 Dermal</th>
<th>LD50 Oral</th>
<th>LC50 96h Dermal</th>
<th>LC50 96h Oral</th>
</tr>
</thead>
<tbody>
<tr>
<td>2855-13-2 Isophorondiamine</td>
<td>1030 mg/kg (rat)</td>
<td>1840 mg/kg (rabbit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-51-6 Benzyl alcohol</td>
<td>1230 mg/kg (rat)</td>
<td>2000 mg/kg (rabbit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90-72-2 2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>2169 mg/kg (rat)</td>
<td>1242 mg/kg (rabbit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80-05-7 bisphenol A</td>
<td>3250 mg/kg (rat)</td>
<td>3000 mg/kg (rabbit)</td>
<td>9.4 mg/l (fish) (OECD 203)</td>
<td></td>
</tr>
</tbody>
</table>
Trade name: DENEPOX 40 Component B

**Primary irritant effect:-**

**Skin corrosion/irritation**
Causes severe skin burns and eye damage.

**Serious eye damage/irritation**
Causes serious eye damage.

**Respiratory or skin sensitisation**
May cause an allergic skin reaction.

**Additional toxicological information:** Suspected of damaging fertility or the unborn child.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity**
Suspected of damaging fertility.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1 Toxicity:**

**AQUATIC TOXICITY**

| 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol | EC50, 72h | 84 mg/l (algae) (OECD 201) |

**12.2 Persistence and degradability:** No further relevant information available.

**12.3 Bioaccumulative potential:** No further relevant information available.

**12.4 Mobility in soil:** No further relevant information available.

**ECOTOXICAL EFFECTS**

**Remark:** Harmful to fish

**ADDITIONAL ECOLOGICAL INFORMATION**

**General notes:**
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Harmful to aquatic organisms.

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

**PBT:** Not applicable.
**vPvB:** Not applicable.

**12.6 Other adverse effects:** No further relevant information available.
SECTION 13: Disposal considerations

13.1 Waste treatment methods:
Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

UNCLEANED PACKAGING
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA
UN2735

14.2 UN proper shipping name
ADR, IMDG, IATA
AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorondiamine)

14.3 Transport hazard class(es)
ADR, IMDG, IATA

Class
8 Corrosive substances.

Label
8

14.4 Packing group
ADR, IMDG, IATA
III

14.5 Environmental hazards:
Marine pollutant:
No.

14.6 Special precautions for user:
Danger code (Kemler):
Warning: Corrosive substances. 80
EMS Number:
F-A,S-B

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not Regulated

Transport/Additional information:

ADR
Limited quantities (LQ)
5L
Exempted quantities (EQ)
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

Transport category
3
Tunnel restriction code
E

(Contd. on page 9)
Safety Data Sheet
According to 1272/2008/EC (CLP)

Trade name: DENEPOX 40 Component B

IMDG
Limited quantities (LQ): 5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

Exempted quantities (EQ): Code: E1

UN "Model Regulation": UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S.
(ISOPHORONDIAMINE), 8, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
See Section 2 for hazard identification.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.
H412 Harmful to aquatic life with long lasting effects.

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