SAFETY DATA SHEET
IN2 EPOXY INFUSION RESIN

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name: IN2 Epoxy Infusion Resin
Company: Easy Composites
Unit 39, Park Hall Business Village
Longton, Stoke-on-Trent
ST3 5XA
United Kingdom

Email: sales@easycomposites.co.uk
Telephone: 01782 454499

2. HAZARDS IDENTIFICATION

Main hazards:
- When brought into contact with the eyes, the product causes irritation that may last for over 24 hours, and upon brought into contact with the skin it causes inflammation if it is not removed immediately.
- If brought into contact with the skin, the product may cause sensitisation of the skin.
- This product is a threat to the environment; it is toxic for aquatic organisms following acute exposure.
- In the long term this product may have negative effects on the aquatic environment, because it is not easily biodegradable and/or bioaccumulable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Conc.</th>
<th>CAS</th>
<th>EINECS</th>
<th>CAS Symbols/Risk phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol-A-epichlorhydrin (reaction product)</td>
<td>30 - 50%</td>
<td>25068-38-6</td>
<td>500-033-5</td>
<td>Xi; R36/38-43 N; R51/53</td>
</tr>
<tr>
<td>Bisphenol F-Epichlorohydrin (reaction product)</td>
<td>30 - 50%</td>
<td>CAS: 28064-14-4</td>
<td>222-384-0</td>
<td>Xi,N; R51-53-36/38-43</td>
</tr>
<tr>
<td>1,6-bis(2,3-epoxypropoxy)hexane</td>
<td>20 - 30%</td>
<td>16096-31-4</td>
<td>240-260-4</td>
<td>Xi; R36/38-43-52-53</td>
</tr>
<tr>
<td>5% propylene carbonate</td>
<td>&lt;5%</td>
<td>108-32-7</td>
<td>203-572-1</td>
<td>Xi; R36</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

- **Skin contact**: Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
- **Eye contact**: Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
- **Inhalation**: Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.
- **Ingestion**: Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.
5. FIRE FIGHTING MEASURES
Extinguishing media: CO2, Foam, Chemical powders or sand. Use water based extinguishing media with caution.
Extinguishers not to be used: None in particular.
Risks arising from combustion: Avoid inhaling the fumes. Incomplete combustion releases toxic gases.
Protective equipment: Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES
Personal precautions: Ensure adequate ventilation of the working area. Wear suitable protective equipment.
Environmental precautions: Limit leakages with earth or sand. If the product has flown off into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the responsible authorities.
Clean up methods: Rapidly collect the product. To do so, wear a mask and protective clothing. Recover the product for re-use if possible, or for elimination in compliance with waste disposal regulations in force. The product might, where appropriate, be absorbed by inert material. After the product has been removed, rinse the involved area and materials with water that must be disposed in compliance with regulations in force.

7. HANDLING AND STORAGE
Handling: Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
Storage: Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
Instructions regarding storage facilities: Avoid exposition to low temperature (T > 15°C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION
Engineering measures: Ensure adequate ventilation of the working area.
Respiratory protection: Required where ventilation/aspiration is insufficient or exposure is prolonged, or for applications in which the product is sprayed or heated. Required in case of machining or applications that release dusts.
Hand protection: Chemical resistant gloves (PVC)
Eye protection: Required in case of machining or applications that release dust. Safety goggles.
Protective equipment: Use clothing that provides complete protection to the skin. Available Exposure Limits (ACGIH) for substances of section 2:

9. PHYSICAL AND CHEMICAL PROPERTIES
Description: Liquid.
Colour: Yellow.
Odour: Slight.
Relative density: 1.15
Dynamic viscosity: 500 - 600 mPa.s (25°C)
EN13702-2:
Boiling point: > 200
Flash point: > 140 °C (DIN 51758)
Specific gravity ASTM D 1475: 1.15
Solubility in water: Insoluble

10. STABILITY AND REACTIVITY
Stability: Stable under normal conditions.
Substances to avoid: The product reacts exothermically with amines, Lewis acids and mercaptanes.
Hazardous decomposition products: It may catch fire on contact with powerful oxidising agents. Upon incomplete combustion carbon monoxide is formed.
11. TOXICOLOGICAL INFORMATION

Toxicological information

Bisphenol A-(epichlorhydrin) (reaction product)
LD50 (Oral): > 2000 mg/kg (Rat)
LD50 (Dermal): > 2000 mg/kg (Rabbit)

Bisphenol F-epichlorohydrin resin, mw < 700
Oral Rat LD50 = 23800 mg/kg
Dermal Rabbit LD50 = > 2000 mg/kg

Propylene carbonate
Oral Mouse LD50 = 20700 mg/kg
Oral Rat LD50 = 29000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Propylene carbonate
Fish LC50/24h = 5 mg/l

13. DISPOSAL CONSIDERATIONS

General information
Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

ADR/RID

UN 3082
Class 9
Packing group III
Hazard ID 90

Proper Shipping Name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IMDG

UN 3082
Class 9
Packing group III
Marine pollutant

EmS Code F-A S-F

IATA

UN 3082
Class 9
Packing group III
NO LIMIT

Packing Instruction (Cargo) 914
Packing Instruction (Passenger) 914

15. REGULATORY INFORMATION

Labelling
The product is classified in accordance with 67/548/EEC.

Symbols
Xi - Irritant; N - Dangerous for the environment

Risk phrases
R36/38 - Irritating to eyes and skin.
R43 - May cause sensitisation by skin contact.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases
S24 - Avoid contact with skin.
S29 - Do not empty into drains.
S37/39 - Wear suitable gloves and eye/face protection.
## 16. OTHER INFORMATION

| Text of risk phrases in Section 3. | R36/37/38 - Irritating to eyes, respiratory system and skin.  
| 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. |

| Further information | The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. |
SAFETY DATA SHEET

AT30 EPOXY HARDENER - FAST

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

<table>
<thead>
<tr>
<th>Product name</th>
<th>AT30 EPOXY HARDENER - FAST</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company</td>
<td>Easy Composites</td>
</tr>
<tr>
<td></td>
<td>Unit 39</td>
</tr>
<tr>
<td></td>
<td>Park Hall Business Village</td>
</tr>
<tr>
<td></td>
<td>Longton, Stoke-on-Trent</td>
</tr>
<tr>
<td></td>
<td>ST3 5XA</td>
</tr>
<tr>
<td></td>
<td>United Kingdom</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:sales@easycomposites.co.uk">sales@easycomposites.co.uk</a></td>
</tr>
<tr>
<td>Telephone</td>
<td>01782 454499</td>
</tr>
</tbody>
</table>

2. HAZARDS IDENTIFICATION

Main hazards
The product is harmful following acute exposure to it and poses a serious health threat if inhaled, ingested, or brought into contact with the skin.

The product is highly corrosive and, if brought into contact with the skin, causes serious burning, with the rapid destruction of the entire thickness of skin tissue.

If brought into contact with the skin, the product may cause sensitisation of the skin.

This product is a threat to the environment; it is harmful to aquatic organisms following acute exposure.

In the long term this product may have negative effects on the aquatic environment, because it is not easily biodegradable and/or bioaccumulable.

This product is harmful - it is suspected that it can impair human fertility.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Conc.</th>
<th>CAS</th>
<th>EINECS</th>
<th>CAS Symbols/Risk phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-phenylenbis(methylamine); 1,3-</td>
<td>30 - 50%</td>
<td>1477-55-0</td>
<td>216-032-5</td>
<td>Xn,Xi,C; R20/22-35-43-52/53</td>
</tr>
<tr>
<td>Benzenedimethaneamine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-3’-ethylenedioxybis(propylamine)</td>
<td>20 - 30%</td>
<td>2997-01-5</td>
<td>221-067-4</td>
<td>Xn,Xi,C; R21-34-43</td>
</tr>
<tr>
<td>4,4’-isopropyldenediphenol</td>
<td>20 - 30%</td>
<td>80-05-7</td>
<td>201-245-8</td>
<td>3,Xi; R37-41-43-62</td>
</tr>
<tr>
<td>Polyoxypropyldiamin</td>
<td>10-20%</td>
<td>9046-10-0</td>
<td></td>
<td>C; R34</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>Immediately take off all contaminated clothing. Remove the product with</td>
</tr>
<tr>
<td></td>
<td>a cloth or absorbent paper. Do not use solvents. Wash with plenty of</td>
</tr>
<tr>
<td></td>
<td>water and soap. Seek medical advice.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Wash immediately and thoroughly with running water, keeping eyelids</td>
</tr>
<tr>
<td></td>
<td>raised, for at least 10 minutes. Following this, protect the eyes with</td>
</tr>
<tr>
<td></td>
<td>sterile gauze or a clean, dry, handkerchief. Seek medical advice.</td>
</tr>
<tr>
<td></td>
<td>Do not use eyewash or ointment of any kind before obtaining an</td>
</tr>
<tr>
<td></td>
<td>examination or advice from an ophthalmologist.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Ventilate the premises. The patient is to be removed immediately from</td>
</tr>
<tr>
<td></td>
<td>the contaminated premises to rest in a well ventilated area. Call a</td>
</tr>
<tr>
<td></td>
<td>physician.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Do not under any circumstance induce vomiting. Seek medical advice</td>
</tr>
<tr>
<td></td>
<td>immediately.</td>
</tr>
</tbody>
</table>
5. FIRE FIGHTING MEASURES

Extinguishing media    Use as appropriate: carbon dioxide (CO2), dry chemical, foam.
Fire hazards           Corrosive. Burning produces irritating, toxic and obnoxious fumes.
Protective equipment   Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions   Ensure adequate ventilation of the working area. Evacuate personnel to a safe area.
                       Wear suitable protective equipment.
Environmental precautions
                       If the product has flown off into a water course, into the drainage system, or has
                       contaminated the ground or vegetation, notify the responsible authorities.
Clean up methods       Rapidly collect the product. To do so, wear a mask and protective clothing.
                       If the product is in a liquid form, stop it from entering the drainage system.
                       Recover the product for re-use if possible, or for elimination in compliance with waste
                       disposal regulations in force. The product might, where appropriate, be absorbed by
                       inert material.
                       After the product has been removed, rinse the involved area and materials with water
                       that must be disposed in compliance with regulations in force.

7. HANDLING AND STORAGE

Handling               Avoid contact with and inhalation of vapours and/or dusts. See also paragraph 8 below.
                       Do not eat or drink or smoke while working. Wash hands before breaks and at the end
                       of work. Maintain sufficient personal care.
Incompatible materials: The product reacts with acids, isocyanates, oxidants as well as epoxy, chlorinated and
                       carbonylic compounds.
Storage conditions     The product is moisture sensitive. Keep in a dry place in the original containers tightly
                       closed. Instructions regarding storage facilities:
                       Avoid exposition to low temperature (T > 15°C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures  Ensure adequate ventilation of the working area.
Respiratory protection Required where ventilation/aspiration is insufficient or exposure is prolonged, or for
                         applications in which the product is sprayed or heated.
                       Required in case of machining or applications that release dusts.
Hand protection        Chemical resistant gloves (PVC)
Eye protection         Approved safety goggles.
Protective equipment   Wear chemical protective clothing.
Protection for skin    Use clothing that provides complete protection to the skin.
Available Exposure Limits (ACGIH) for substances of section 3: None.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description           Liquid.
Colour                Pale yellow.
Odour                 Ammoniacal.
Flash point           > 100 °C (DIN 51758)
Specific gravity ASTM D 1475: 1.04 gr/ml (25°C)
Dynamic viscosity     30 - 80 mPa.s (25°C)

10. STABILITY AND REACTIVITY

Stability             Stable under normal conditions.
Hazardous decomposition products
                       It may generate toxic gases on contact with oxidising mineral acids, halogenated organic
                       substances, organic peroxides and hydroperoxides, and powerful oxidising agents.
                       Upon combustion CO, CO2, NH3, NOX and other nitrogen containing compounds are
**11. TOXICOLOGICAL INFORMATION**

No toxicological data related to the preparation are available. 
When available, the information relating to the main components are listed below.

Polyyoxypropyldiamin

**Acute toxicity**  
LD50 (oral): 2880 mg/kg (rat)  
LC50 (dermal): 2980 mg/kg (rabbit)

**Chronic toxicity**  
Can cause dermatitis. Lung damage may be caused by repeated and prolonged exposure to the product.

**Sensitization**  
Not sensitizing.

**Irritating to skin (corrosive):** Draize Method 6.40-8.00/8.0 (rabbit)

**Irritating to eyes (irritant):** Draize Method 80.00-110.00/110 (rabbit)

---

**12. ECOLOGICAL INFORMATION**

**General information**  
Adopt sound working practices, so that the product is not released into the environment. When available, the information relating to the main components are listed below.  
Polyoxypropyldiamin  
Leuciscus idus/CL50 (96h) > 220 mg/l  
Not readily biodegradable.

---

**13. DISPOSAL CONSIDERATIONS**

**General information**  
Dispose of in compliance with all local and national regulations.

---

**14. TRANSPORT INFORMATION**

**ADR/RID**

<table>
<thead>
<tr>
<th>UN</th>
<th>Packing group</th>
<th>II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>Hazard ID</td>
<td>80</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>POLYAMINES, LIQUID, CORROSIVE, N.O.S. [Benzendimethanamin]</td>
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</tr>
</tbody>
</table>

**IMDG**

<table>
<thead>
<tr>
<th>UN</th>
<th>Packing group</th>
<th>II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>Marine pollutant</td>
<td></td>
</tr>
<tr>
<td>EmS Code</td>
<td>F-A S-B</td>
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</tr>
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</table>

**IATA**

<table>
<thead>
<tr>
<th>UN</th>
<th>Packing group</th>
<th>II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum quantity (Passenger)</td>
<td>5L</td>
<td></td>
</tr>
<tr>
<td>Maximum quantity (Cargo)</td>
<td>60L</td>
<td></td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Maximum quantity (Passenger)</td>
<td>818</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Packing Instruction (Cargo)</td>
<td>820</td>
<td></td>
</tr>
</tbody>
</table>

---

**15. REGULATORY INFORMATION**

**Labelling**  
The product is classified in accordance with 67/548/EEC.

**Symbols**  
C – Corrosive
**Risk phrases**

R20/21/22 - Harmful in contact with skin and if swallowed.
R35 - Causes severe burns.
R43 - May cause sensitisation by skin contact.

**Safety phrases**

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 - Possible risk of impaired fertility.
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 soap and water.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### 16. OTHER INFORMATION

**Text of risk phrases in Section 3.**

R20/22 - Harmful by inhalation and if swallowed.
R21 - Harmful in contact with skin and if swallowed.
R34 - Causes burns.
R35 - Causes severe burns
R43 - May cause sensitisation by skin contact.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Further information**

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

**Revision History**

19/07/11 – Combined epoxy resin and epoxy resin hardener MSDS datasheets into one file.
SAFETY DATA SHEET
AT30 EPOXY HARDENER – SLOW

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name          AT30 EPOXY HARDENER - SLOW
Company               Easy Composites
                       Unit 39
                       Park Hall Business Village
                       Longton, Stoke-on-Trent
                       ST3 5XA
                       United Kingdom
Email                 sales@easycomposites.co.uk
Telephone             01782 454499

2. HAZARDS IDENTIFICATION

Main hazards          The product is harmful following acute exposure to it and poses a serious health threat if inhaled, ingested, or brought into contact with the skin.
The product is highly corrosive and, if brought into contact with the skin, causes serious burning, with the rapid destruction of the entire thickness of skin tissue.
If brought into contact with the skin, the product may cause sensitisation of the skin.
This product is a threat to the environment; it is harmful to aquatic organisms following acute exposure.
In the long term this product may have negative effects on the aquatic environment, because it is not easily biodegradable and/or bioaccumulable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

<table>
<thead>
<tr>
<th>Conc.</th>
<th>CAS</th>
<th>EINECS</th>
<th>CAS Symbols/Risk phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyoxypropylenediamin</td>
<td>30-50%</td>
<td>9046-10-0</td>
<td>C; R34</td>
</tr>
<tr>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamine</td>
<td>30 - 50%</td>
<td>2855-13-2</td>
<td>220-666-8</td>
</tr>
<tr>
<td>2,2,4-(2,4,4-trimethylhexamethylenediamine</td>
<td>5 - 10%</td>
<td>25620-58-0</td>
<td>247-134-84</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>&lt;5%</td>
<td>80-05-7</td>
<td>201-245-8</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Skin contact          Immediately take off all contaminated clothing.
                       Remove the product with a cloth or absorbent paper. Do not use solvents.
                       Wash with plenty of water and soap.
                       Seek medical advice.

Eye contact           Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. Seek medical advice.
                       Do not use eyewash or ointment of any kind before obtaining an examination or advice from an ophthalmologist.

Inhalation            Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. Call a physician.

Ingestion            Do not under any circumstance induce vomiting. Seek medical advice immediately.
5. FIRE FIGHTING MEASURES

Extinguishing media
Use as appropriate: carbon dioxide (CO2), dry chemical, foam.

Fire hazards
Corrosive. Burning produces irritating, toxic and obnoxious fumes.

Protective equipment
Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.

Environmental precautions
Limit leakages with earth or sand. If the product has flown off into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the responsible authorities.

Clean up methods
Rapidly collect the product. To do so, wear a mask and protective clothing. If the product is in a liquid form, stop it from entering the drainage system. Recover the product for re-use if possible, or for elimination in compliance with waste disposal regulations in force. The product might, where appropriate, be absorbed by inert material. After the product has been removed, rinse the involved area and materials with water that must be disposed in compliance with regulations in force.

7. HANDLING AND STORAGE

Handling
Avoid contact with and inhalation of vapours and/or dusts. See also paragraph 8 below. Do not eat or drink or smoke while working. Wash hands before breaks and at the end of work. Maintain sufficient personal care.

Incompatible materials:
The product reacts with acids, isocyanates, oxidants as well as epoxy, chlorinated and carbonylic compounds.

Storage conditions
The product is moisture sensitive. Keep in a dry place in the original containers tightly closed. Instructions regarding storage facilities:
Avoid exposition to low temperature (T > 15°C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures
Ensure adequate ventilation of the working area.

Respiratory protection
Required where ventilation/aspiration is insufficient or exposure is prolonged, or for applications in which the product is sprayed or heated. Required in case of machining or applications that release dusts.

Hand protection
Chemical resistant gloves (PVC)

Eye protection
Approved safety goggles.

Protective equipment
Wear chemical protective clothing.

Protection for skin
Use clothing that provides complete protection to the skin. Available Exposure Limits (ACGIH) for substances of section 3: None.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description
Liquid.

Colour
Pale yellow.

Odour
Ammoniacal.

Flash point
> 150 °C (DIN 51758)

Solubility in water
Soluble

Specific gravity ASTM D 1475
0.93 gr/ml (25°C)

Dynamic viscosity
5 - 20 mPa.s (25°C)

10. STABILITY AND REACTIVITY

Conditions to avoid
Stable under normal conditions.

Substances to avoid
None in particular
11. TOXICOLOGICAL INFORMATION

No toxicological data related to the preparation are available. When available, the information relating to the main components are listed below.

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute toxicity</th>
<th>Chronic toxicity</th>
<th>Sensitization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyoxypropylenediamin</td>
<td>LD50 (oral): 2.880 mg/kg (rat) LC50 (dermal): 2,980 mg/kg (rabbit)</td>
<td>Can cause dermatitis. Lung damage may be caused by repeated and prolonged exposure to the product. Not sensitizing.</td>
<td>Irritating to skin (corrosive): Draize Method 6,40-8.00/8.0 (rabbit) Irritating to eyes (irritant): Draize Method 80.00-110.00/110 (rabbit)</td>
</tr>
<tr>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamine</td>
<td>LD50 (oral): &gt; 1.000 mg/kg (rat) (Magnusson-Kligman test), test-animal strongly sensitized.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,2,4-(2,4,4-)Trimethylehexamethylenediamine</td>
<td>LD50 (oral): &gt; 900 mg/kg (rat)</td>
<td>Vapours are irritating to the respiratory system.</td>
<td></td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>LD50 (oral): &gt; 1.000 mg/kg (rat) LD50 (dermal): 2.000 mg/kg (rabbit) LC50 (inhalation): 2000 ppm (4 h, rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

General information
Adopt sound working practices, so that the product is not released into the environment. When available, the information relating to the main components are listed below.

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute toxicity</th>
<th>Chronic toxicity</th>
<th>Sensitization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyoxypropylenediamin</td>
<td>Leuciscus idus/CL50 (96h) &gt; 220 mg/l</td>
<td>Not readily biodegradable.</td>
<td></td>
</tr>
<tr>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamine</td>
<td>Not expected to be readily biodegradable. 42% (Coupled Units Test) 8% (Method Ce79/831)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,2,4-(2,4,4-Trimethylehexamethylenediamine</td>
<td>Acute toxicity LC/EC/IC 50 &gt; 30 mg/l</td>
<td>Not expected to be biodegradable.</td>
<td></td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>Acute toxicity TLM/48h/Daphnia: 360 ppm</td>
<td>Expected to be readily biodegradable.</td>
<td></td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

General information
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.
14. TRANSPORT INFORMATION

ADR/RID

<table>
<thead>
<tr>
<th>UN</th>
<th>Packing group</th>
<th>Class</th>
<th>Hazard ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>2735</td>
<td>III</td>
<td>8</td>
<td>80</td>
</tr>
</tbody>
</table>

Proper Shipping Name

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Isophoronediamine)

IMDG

<table>
<thead>
<tr>
<th>UN</th>
<th>Packing group</th>
<th>Class</th>
<th>Marine pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td>2735</td>
<td>III</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

EmS Code F-A S-B

IATA

<table>
<thead>
<tr>
<th>UN</th>
<th>Packing group</th>
<th>Class</th>
<th>Maximum quantity (Passenger)</th>
<th>Maximum quantity (Cargo)</th>
<th>Subsidiary Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>2735</td>
<td>III</td>
<td>8</td>
<td>5L</td>
<td>60L</td>
<td>-</td>
</tr>
</tbody>
</table>

Packing Instruction (Passenger) 818

Packing Instruction (Cargo) 820

15. REGULATORY INFORMATION

Labelling

The product is classified in accordance with 67/548/EEC.

Symbols

C – Corrosive

Risk phrases

R21/22 - Harmful in contact with skin and if swallowed.
R34 – Causes burns.
R43 - May cause sensitisation by skin contact.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

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 soap and water.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

Text of risk phrases in Section 3.

R20/22 - Harmful by inhalation and if swallowed.
R21/22 - Harmful in contact with skin and if swallowed.
R22 – Harmful if swallowed.
R35 - Causes severe burns
R43 – Causes severe burns
R43 - May cause sensitisation by skin contact.
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.