

# **ITW** Engineered Polymers

## SAFETY DATA SHEET 1 MINUTE EPOXY GEL RESIN

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

#### 1.1. Product identifier

Product name 1 MINUTE EPOXY GEL RESIN  
Internal identification 14277 DE120

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Resin.

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

ITW Engineered Polymers  
Bay 150  
Shannon Industrial Estate  
Shannon  
Co. Clare

+353 (0)61 471 299  
+353 (0)61 471 285  
mail@itwep.com

#### 1.4. Emergency telephone number

Emergency telephone +44(0)1235 239 670 (24h)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical hazards Not Classified  
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317  
Environmental hazards Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC) Xi;R36/38. R43. N;R51/53.

Human health The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals.

#### 2.2. Label elements

##### Pictogram



Signal word

Warning

# 1 MINUTE EPOXY GEL RESIN

|   |  |
|---|--|
| <b>Hazard statements</b>                      | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H411 Toxic to aquatic life with long lasting effects.  |
| <b>Precautionary statements</b>               | P273 Avoid release to the environment.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P302+P352 IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.   |
| <b>Supplemental label information</b>         | EUH205 Contains epoxy constituents. May produce an allergic reaction.  |
| <b>Contains</b>                               | EPOXY RESIN (Number average MW <= 700 )  |
| <b>Supplementary precautionary statements</b> | P261 Avoid breathing vapour/ spray.<br>P264 Wash contaminated skin thoroughly after handling.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P321 Specific treatment (see medical advice on this label).<br>P332+P313 If skin irritation occurs: Get medical advice/ attention.<br>P337+P313 If eye irritation persists: Get medical advice/ attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse.<br>P391 Collect spillage.<br>P501 Dispose of contents/ container in accordance with national regulations. |

## 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|   |  |
|---|--|
| <b>EPOXY RESIN (Number average MW &lt;= 700 )</b> | <b>60-100%</b>                                   |
| CAS number: 25068-38-6                            | EC number: 500-033-5                             |
|   | REACH registration number: 01-2119456619-26-0000 |
| <b>Classification</b>                             | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Skin Irrit. 2 - H315                              | R43 Xi;R36/38 N;R51/53                           |
| Eye Irrit. 2 - H319                               |  |
| Skin Sens. 1 - H317                               |  |
| Aquatic Chronic 2 - H411                          |  |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                            |   |
|----------------------------|---|
| <b>General information</b> | Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).   |
| <b>Inhalation</b>          | Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues. |
| <b>Ingestion</b>           | Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.  |

# 1 MINUTE EPOXY GEL RESIN

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.

## 4.2. Most important symptoms and effects, both acute and delayed

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

## 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with the following media: Carbon dioxide (CO<sub>2</sub>). Dry chemicals. Foam.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Irritating gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Usage precautions** Use only in well-ventilated areas. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Provide adequate ventilation. Do not use in confined spaces without adequate ventilation and/or respirator. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.

# 1 MINUTE EPOXY GEL RESIN

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10).

## 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

**Ingredient comments** No exposure limits known for ingredient(s).

#### EPOXY RESIN (Number average MW <= 700 ) (CAS: 25068-38-6)

#### DNEL

Workers - Dermal; Short term systemic effects: 8.33 mg/kg/day  
Workers - Inhalation; Short term systemic effects: 12.25 mg/m<sup>3</sup>

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

#### Hand protection

Use protective gloves. It is recommended that gloves are made of the following material: Butyl rubber. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 8 hours.

#### Other skin and body protection

Wear chemical protective suit.

#### Hygiene measures

Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Promptly remove any clothing that becomes wet or contaminated. Wash promptly if skin becomes contaminated.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Check that the respirator fits tightly and the filter is changed regularly. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear a respirator fitted with the following cartridge: Gas filter, type A2.

## SECTION 9: Physical and Chemical Properties

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

**Appearance** Viscous liquid.

**Colour** Light (or pale). Yellow.

# 1 MINUTE EPOXY GEL RESIN

|                                 |                                  |
|---------------------------------|----------------------------------|
| Odour                           | Slight.                          |
| pH                              | pH (diluted solution): 7.5% soln |
| Melting point                   | N/D°C                            |
| Initial boiling point and range | >260°C @                         |
| Evaporation rate                | <<1 (BuAc=1)                     |
| Vapour pressure                 | 0.03 mmHg @ °C                   |
| Vapour density                  | >1                               |
| Relative density                | 1.1-1.3 @ °C                     |
| Solubility(ies)                 | Slightly soluble in water.       |
| Partition coefficient           | : >204                           |

## 9.2. Other information

Other information Not available.

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity Acids. Strong oxidising agents. Amines.

### 10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not polymerise.

### 10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.

### 10.5. Incompatible materials

Materials to avoid Acids. Strong oxidising agents. Alkalis - organic. Amines.

### 10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Ingestion May cause discomfort if swallowed.

Skin contact Irritating to skin. Prolonged contact may cause redness, irritation and dry skin. May cause sensitisation by skin contact. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact Irritating to eyes. A single exposure may cause the following adverse effects: Corneal damage.

Acute and chronic health hazards The product contains an epoxy resin. May cause sensitisation or allergic reactions in sensitive individuals.

# 1 MINUTE EPOXY GEL RESIN

**Route of entry** Inhalation Ingestion. Skin absorption

## SECTION 12: Ecological Information

**Ecotoxicity** Avoid release to the environment. The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

**Toxicity** Very toxic to aquatic organisms.

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

**Partition coefficient** : >204

### 12.4. Mobility in soil

**Mobility** Do not discharge into drains or watercourses or onto the ground.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Waste class** 08 04 99

## SECTION 14: Transport information

**General** No other information known.

### 14.1. UN number

**UN No. (ADR/RID)** 3082

**UN No. (IMDG)** 3082

**UN No. (ICAO)** 3082

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ))

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ))

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700 ))

# 1 MINUTE EPOXY GEL RESIN

**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN  
(Number average MW <= 700 ))

## 14.3. Transport hazard class(es)

|                     |   |
|---------------------|---|
| ADR/RID class       | 9 |
| ADR/RID label       | 9 |
| IMDG class          | 9 |
| ICAO class/division | 9 |

## Transport labels



## 14.4. Packing group

|                       |     |
|-----------------------|-----|
| ADR/RID packing group | III |
| IMDG packing group    | III |
| ICAO packing group    | III |

## 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



## 14.6. Special precautions for user

|  |          |
|--|----------|
| EmS                                    | F-A, S-F |
| Emergency Action Code                  | •3Z      |
| Hazard Identification Number (ADR/RID) | 90       |
| Tunnel restriction code                | (E)      |

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information required.

## SECTION 15: Regulatory information

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

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Revision date 25/04/2017

## 1 MINUTE EPOXY GEL RESIN

|                                  |   |
|----------------------------------|---|
| <b>Revision</b>                  | 11  |
| <b>Supersedes date</b>           | 12/06/2014  |
| <b>Risk phrases in full</b>      | R36/38 Irritating to eyes and skin.<br>R43 May cause sensitisation by skin contact.<br>R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| <b>Hazard statements in full</b> | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H411 Toxic to aquatic life with long lasting effects.                 |

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



# **ITW** Engineered Polymers

## SAFETY DATA SHEET 1 MINUTE EPOXY GEL HARDENER

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

#### 1.1. Product identifier

**Product name** 1 MINUTE EPOXY GEL HARDENER  
**Internal identification** 14177, 14277, DA004, DE120

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Hardener.

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

ITW Engineered Polymers  
Bay 150  
Shannon Industrial Estate  
Shannon  
Co. Clare

+353 (0)61 471 299  
+353 (0)61 471 285  
mail@itwep.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44(0)1235 239 670 (24h)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335  
**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** Xn;R21. C;R34. R43.

**Human health** Corrosive to skin and eyes. Corrosive. Prolonged contact causes serious eye and tissue damage.

#### 2.2. Label elements

##### Pictogram



##### Signal word

Danger

# 1 MINUTE EPOXY GEL HARDENER

|   |   |
|---|---|
| <b>Hazard statements</b>                      | H302+H312 Harmful if swallowed or in contact with skin.<br>H314 Causes severe skin burns and eye damage.<br>H317 May cause an allergic skin reaction.<br>H335 May cause respiratory irritation.   |
| <b>Precautionary statements</b>               | P261 Avoid breathing vapour/ spray.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.   |
| <b>Contains</b>                               | POLYMERCAPTAN -POLYAMIDE CURING AGENT, BIS(DIMETHYLAMINOETHYL) ETHER, 1,8-diazabicyclo[5.4.0]undec-7-ene  |
| <b>Supplementary precautionary statements</b> | P260 Do not breathe vapour/ spray.<br>P264 Wash contaminated skin thoroughly after handling.<br>P271 Use only outdoors or in a well-ventilated area.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.<br>P302+P352 IF ON SKIN: Wash with plenty of water.<br>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P310 Immediately call a POISON CENTER/ doctor.<br>P312 Call a POISON CENTER/ doctor if you feel unwell.<br>P321 Specific treatment (see medical advice on this label).<br>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse.<br>P363 Wash contaminated clothing before reuse.<br>P403+P233 Store in a well-ventilated place. Keep container tightly closed.<br>P405 Store locked up.<br>P501 Dispose of contents/ container in accordance with national regulations. |

## 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|  |  |
|--|--|
| <b>POLYMERCAPTAN -POLYAMIDE CURING AGENT</b> | <b>60-100%</b>                                   |
| CAS number: —                                |  |
| <b>Classification</b>                        | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Acute Tox. 4 - H312                          | Xn;R21. C;R34. R43.                              |
| Skin Corr. 1B - H314                         |  |
| Skin Sens. 1 - H317                          |  |
| STOT SE 3 - H335                             |  |
| <b>1,8-diazabicyclo[5.4.0]undec-7-ene</b>    | <b>5-10%</b>                                     |
| CAS number: 6674-22-2                        |  |
| <b>Classification</b>                        |  |
| Acute Tox. 3 - H301                          |  |
| Skin Corr. 1B - H314                         |  |
| Eye Dam. 1 - H318                            |  |

# 1 MINUTE EPOXY GEL HARDENER

|                                      |  |              |
|--------------------------------------|--|--------------|
| <b>BIS(DIMETHYLAMINOETHYL) ETHER</b> |  | <b>5-10%</b> |
| CAS number: 3033-62-3                | EC number: 221-220-5                             |              |
| <b>Classification</b>                | <b>Classification (67/548/EEC or 1999/45/EC)</b> |              |
| Acute Tox. 4 - H302                  | T;R23/24. Xn;R22. C;R35.                         |              |
| Acute Tox. 3 - H311                  |  |              |
| Acute Tox. 4 - H332                  |  |              |
| Skin Corr. 1B - H314                 |  |              |
| Eye Dam. 1 - H318                    |  |              |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                            |   |
|----------------------------|---|
| <b>General information</b> | Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).   |
| <b>Inhalation</b>          | Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.   |
| <b>Ingestion</b>           | Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. |
| <b>Skin contact</b>        | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.   |
| <b>Eye contact</b>         | Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.   |

### 4.2. Most important symptoms and effects, both acute and delayed

|                            |   |
|----------------------------|---|
| <b>General information</b> | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
|----------------------------|---|

### 4.3. Indication of any immediate medical attention and special treatment needed

|                             |   |
|-----------------------------|---|
| <b>Notes for the doctor</b> | No specific recommendations. If in doubt, get medical attention promptly. |
|-----------------------------|---|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                     |   |
|-------------------------------------|---|
| <b>Suitable extinguishing media</b> | Extinguish with the following media: Carbon dioxide (CO <sub>2</sub> ). Dry chemicals. Foam. Water. |
|-------------------------------------|---|

### 5.2. Special hazards arising from the substance or mixture

|                         |                              |
|-------------------------|------------------------------|
| <b>Specific hazards</b> | Irritating gases or vapours. |
|-------------------------|------------------------------|

### 5.3. Advice for firefighters

|   |   |
|---|---|
| <b>Protective actions during firefighting</b> | Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Control run-off water by containing and keeping it out of sewers and watercourses. |
|---|---|

|  |   |
|--|---|
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |
|--|---|

## SECTION 6: Accidental release measures

# 1 MINUTE EPOXY GEL HARDENER

## 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours and contact with skin and eyes.

## 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

## 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

## 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Use only in well-ventilated areas. Avoid contact with skin and eyes. Provide adequate ventilation. Do not use in confined spaces without adequate ventilation and/or respirator. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10).

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

**Ingredient comments** No exposure limits known for ingredient(s).

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

#### Eye/face protection

The following protection should be worn: Personal protective equipment for eye and face protection should comply with European Standard EN166. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

# 1 MINUTE EPOXY GEL HARDENER

|                                       |   |
|---------------------------------------|---|
| <b>Hand protection</b>                | Use protective gloves. It is recommended that gloves are made of the following material: Neoprene. It is recommended that gloves are made of the following material: Butyl rubber. It is recommended that gloves are made of the following material: Nitrile rubber. The selected gloves should have a breakthrough time of at least 8 hours. To protect hands from chemicals, gloves should comply with European Standard EN374.   |
| <b>Other skin and body protection</b> | Wear chemical protective suit.  |
| <b>Hygiene measures</b>               | Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.  |
| <b>Respiratory protection</b>         | If ventilation is inadequate, suitable respiratory protection must be worn. Check that the respirator fits tightly and the filter is changed regularly. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. |

## SECTION 9: Physical and Chemical Properties

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

|  |   |
|--|---|
| <b>Appearance</b>                      | Viscous liquid.                         |
| <b>Colour</b>                          | Amber.                                  |
| <b>Odour</b>                           | Mercaptans (thiols).                    |
| <b>Melting point</b>                   | N/D°C                                   |
| <b>Initial boiling point and range</b> | N/D°C @                                 |
| <b>Flash point</b>                     | >93°C PMCC (Pensky-Martens closed cup). |
| <b>Evaporation rate</b>                | N/D                                     |
| <b>Vapour pressure</b>                 | N/D @ °C                                |
| <b>Vapour density</b>                  | N/D                                     |
| <b>Relative density</b>                | 1.12 @ °C                               |
| <b>Solubility(ies)</b>                 | Slightly soluble in water.              |

### 9.2. Other information

|                          |                |
|--------------------------|----------------|
| <b>Other information</b> | Not available. |
|--------------------------|----------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|                   |   |
|-------------------|---|
| <b>Reactivity</b> | Strong oxidising agents. Acids. Amines. |
|-------------------|---|

### 10.2. Chemical stability

|                  |   |
|------------------|---|
| <b>Stability</b> | Stable at normal ambient temperatures and when used as recommended. |
|------------------|---|

### 10.3. Possibility of hazardous reactions

|   |                      |
|---|----------------------|
| <b>Possibility of hazardous reactions</b> | Will not polymerise. |
|---|----------------------|

### 10.4. Conditions to avoid

## 1 MINUTE EPOXY GEL HARDENER

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Acids. Amines.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Nitrogen. Sulphur. Hydrogen sulphide (H<sub>2</sub>S).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 1,041.67

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 1,054.31

#### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 137.5

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

**Ingestion** May cause severe internal injury. Corrosive. Small amounts may cause serious damage.

**Skin contact** Causes burns. Corrosive. Prolonged contact causes serious tissue damage.

**Eye contact** Causes burns. This product is strongly corrosive. Causes severe burns. Immediate first aid is imperative. Risk of serious damage to eyes.

**Acute and chronic health hazards** This product is corrosive. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns.

### POLYMERCAPTAN -POLYAMIDE CURING AGENT

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 1,100.0

## SECTION 12: Ecological Information

**Ecotoxicity** Avoid release to the environment.

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** Do not discharge into drains or watercourses or onto the ground.

# 1 MINUTE EPOXY GEL HARDENER

## 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

## 12.6. Other adverse effects

**Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Waste class** 08 04 99

## SECTION 14: Transport information

**General** No other information known.

### 14.1. UN number

**UN No. (ADR/RID)** 3267

**UN No. (IMDG)** 3267

**UN No. (ICAO)** 3267

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POLYMERCAPTAN -POLYAMIDE CURING AGENT)

**Proper shipping name (IMDG)** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POLYMERCAPTAN -POLYAMIDE CURING AGENT)

**Proper shipping name (ICAO)** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POLYMERCAPTAN -POLYAMIDE CURING AGENT)

**Proper shipping name (ADN)** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POLYMERCAPTAN -POLYAMIDE CURING AGENT)

### 14.3. Transport hazard class(es)

**ADR/RID class** 8

**ADR/RID label** 8

**IMDG class** 8

**ICAO class/division** 8

### Transport labels



### 14.4. Packing group

**ADR/RID packing group** III

**IMDG packing group** III

# 1 MINUTE EPOXY GEL HARDENER

ICAO packing group III

## 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

## 14.6. Special precautions for user

EmS F-A, S-B

Emergency Action Code 2X

Hazard Identification Number 80  
(ADR/RID)

Tunnel restriction code (E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information required.

## SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Revision date 25/04/2017

Revision 9

Supersedes date 27/04/2016

Risk phrases in full  
R21 Harmful in contact with skin.  
R34 Causes burns.  
R43 May cause sensitisation by skin contact.

Hazard statements in full  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
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.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.