

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 01/12/2022 Version: 9.0

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

#### 1.1. Product identifier

Product form : Mixture

Trade name :: TC160 Tool Cast High Temp Epoxy Casting Resin

Product code : EP-TC160-A

UFI : 8V27-59K2-T00H-3GM6

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

#### 1.2.1. Relevant identified uses

: Industrial use, Professional use Main use category

: Casting compound Use of the substance/mixture

#### 1.2.2. Uses advised against

No additional information available

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

Easy Composites Ltd Unit 39, Park Hall Business Village, Stoke on Trent, Staffordshire. ST3 5XA United Kingdom.

Tel: +44 (0)1782 454499 sales@easycomposites.com

# 1.4. Emergency telephone number

: +44 (0)1782 454499 (working hours only) **Emergency number** 

# **SECTION 2: Hazards identification**

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

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 1 H318 H317 Skin sensitisation, Category 1 Hazardous to the aquatic environment - Chronic Hazard, Category 2 H411

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

## 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS07

Signal word (CLP)

Contains Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and

GHS05

phenol/BPFDGE; bis-[4-(2,3-epoxipropoxi)phenyl]propane; TGMDA, multifunctional epoxide; N,N-Diglycidyl aniline; 1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether

Hazard statements (CLP) : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

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Precautionary statements (CLP)

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

H318 - Causes serious eye damage.

H411 - Toxic to aquatic life with long lasting effects.

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves, protective clothing, eye protection.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P391 - Collect spillage.

## 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

# **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Not applicable

## 3.2. Mixtures

| Name  | Product identifier  | %      | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP]   |
|---|---|--------|---|
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol/BPFDGE | CAS-No.: 9003-36-5<br>EC-No.: 701-263-0<br>REACH-no: 01-2119454392-<br>40                               | 1 – 25 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411  |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane   | CAS-No.: 1675-54-3<br>EC-No.: 216-823-5<br>EC Index-No.: 603-073-00-2<br>REACH-no: 01-2119456619-<br>26 | 1 – 25 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411  |
| 1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether                                 | CAS-No.: 2425-79-8<br>EC-No.: 219-371-7<br>EC Index-No.: 603-072-00-7<br>REACH-no: 01-2119494060-<br>45 | 1 – 25 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 |
| TGMDA, multifunctional epoxide  | CAS-No.: 28768-32-3<br>EC-No.: 249-204-3<br>REACH-no: 01-2119472303-<br>45                              | 1 – 25 | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411   |

| Specific concentration limits:          |   |   |  |
|---|---|---|--|
| Name                                    | Product identifier  | Specific concentration limits   |  |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | CAS-No.: 1675-54-3<br>EC-No.: 216-823-5<br>EC Index-No.: 603-073-00-2<br>REACH-no: 01-2119456619-<br>26 | ( 5 ≤C ≤ 100) Eye Irrit. 2, H319<br>( 5 ≤C ≤ 100) Skin Irrit. 2, H315 |  |

Full text of H- and EUH-statements: see section 16

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#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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

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

# 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

For further information refer to section 13.

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

#### 7.1. Precautions for safe handling

Precautions for safe handling

Hygiene measures

- : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
- : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

#### 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):







# 8.2.2.1. Eye and face protection

# Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

# Skin and body protection:

Wear suitable protective clothing

# Hand protection:

Protective gloves

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#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Grey. Odour : characteristic. Odour threshold : No data available : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : No data available : No data available Boiling point : No data available Flash point Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) : Not applicable Vapour pressure : No data available Relative vapour density at 20°C : No data available Relative density : No data available Density : 1.83 - 1.88 g/cm<sup>3</sup> (25°C)

Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : No data available
Viscosity, kinematic : No data available

Viscosity, dynamic : 120000 – 160000 mPa.s (25°C)

Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol/BPFDGE (9003-36-5)  |  |  |
|--|--|--|
| LD50 oral rat > 2000 mg/kg   |  |  |
| LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Der Toxicity), Remarks on results: other:  |  |  |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane (1675-54-3)  |  |  |
| LD50 oral rat > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline: DECD Guideline: OECD Guideli |  |  |

| LD50 oral rat      | > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)               |
|--------------------|--|
| LD50 dermal rat    | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| LD50 dermal rabbit | 20000 mg/kg  |

| TGMDA, multifunctional epoxide (28768-32-3) | 32-3)  |  |  |
|---|--|--|--|
| LD50 oral rat                               | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)   |  |  |
| LD50 oral                                   | > 5000 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |  |  |
| LD50 dermal rabbit                          | > 3000 mg/kg bodyweight Animal: rabbit   |  |  |

| 1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether (2425-79-8) |  |  |
|---|--|--|
| LD50 oral rat 1163 mg/kg  |  |  |
| LD50 dermal rat   | > 2150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other: |  |
| LD50 dermal rabbit > 2150 mg/kg   |  |  |

| Skin corrosion/irritation | : Causes skin irritation. |
|---------------------------|---------------------------|

| TGMDA, multifunctional epoxide (28768-32-3) |   |
|---|---|
| рН  | 7.1 – 7.3 Temp.: 20 °C Concentration: (>=)10 mg/L |

| Serious eye damage/irritation | : Causes serious eye damage. |
|-------------------------------|------------------------------|
|-------------------------------|------------------------------|

| TGMDA, multifunctional epoxide (28768-32-3) |   |
|---|---|
| рН  | 7.1 – 7.3 Temp.: 20 °C Concentration: (>=)10 mg/L |
| Respiratory or skin sensitisation :         | May cause an allergic skin reaction.              |

| · · · - <b>/</b> · · · · · · · · · · · · · · · · · · · | - | )              |
|--|---|----------------|
| Germ cell mutagenicity                                 | : | Not classified |

Carcinogenicity : Not classified : Not classified

| DIS-[4-(2,3-epoxipropoxi)phenyl]propane (1675-54-3) |                      |  |
|---|----------------------|--|
| IARC group  | 3 - Not classifiable |  |

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| bis-[4-(2,3-epoxipropoxi)phenyl]propane (1675-54-3)   |   |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years)   | 15 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Guideline: EPA OPPTS 870.4300 (Combined Chronic Toxicity / Carcinogenicity), Guideline: other:, Remarks on results: other:    |
| NOAEL (chronic, oral, animal/female, 2 years)   | 100 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Guideline: EPA OPPTS 870.4300 (Combined Chronic Toxicity / Carcinogenicity), Guideline: other:, Remarks on results: other: |
| Reproductive toxicity   | : Not classified  |
| STOT-single exposure  | : Not classified  |
| STOT-repeated exposure  | : Not classified  |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol/BPFDGE (9003-36-5) |   |
| NOAEL (oral, rat, 90 days)  | ≈ 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-<br>Day Oral Toxicity Study in Rodents)   |
| 1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether (2425-79-8)                                 |   |
| LOAEL (oral, rat, 90 days)  | 200 mg/kg bodyweight/day  |
| Aspiration hazard   | : Not classified  |

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.

(chronic)

Not rapidly degradable

| not rapidly degradable  |   |  |
|---|---|--|
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol/BPFDGE (9003-36-5) |   |  |
| LC50 - Fish [1]   | 2.54 mg/l Leuciscus idus (golden orfe)  |  |
| EC50 - Crustacea [1]  | 2.55 mg/l Daphnia magna (Water flea)  |  |
| EC50 72h - Algae [1]  | 1.8 mg/l  |  |
| LOEC (chronic)  | 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                         |  |
| NOEC (chronic)  | 0.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                       |  |
| bis-[4-(2,3-epoxipropoxi)phenyl]pi  | ropane (1675-54-3)  |  |
| LC50 - Fish [1]   | 1.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |  |
| EC50 72h - Algae [1]  | 9.4 mg/l Test organisms (species): Scenedesmus capricornutum                            |  |
| EC50 72h - Algae [2]  | > 11 mg/l Test organisms (species): Scenedesmus capricornutum                           |  |
| LOEC (chronic)  | 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                         |  |
| NOEC (chronic)  | 0.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                       |  |
| TGMDA, multifunctional epoxide (28768-32-3)   |   |  |
| LC50 - Fish [1]   | 2.454 mg/l Source: Ecological Structure Activity Relationships                          |  |
| EC50 - Crustacea [1]  | 14.682 mg/l Daphnia magna (Water flea)  |  |
| EC50 96h - Algae [1]  | 38.234 mg/l Source: Ecological Structure Activity Relationships                         |  |

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| 1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether (2425-79-8) |   |
|---|---|
| LC50 - Fish [1]   | 19.8 mg/l   |
| EC50 - Crustacea [1]  | 22 mg/l Source: National Institute of Technology and Evaluation   |
| EC50 72h - Algae [1]  | > 93 mg/l Source: National Institute of Technology and Evaluation |

## 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

| bis-[4-(2,3-epoxipropoxi)phenyl]propane (1675-54-3)                     |                   |
|---|-------------------|
| Partition coefficient n-octanol/water (Log Pow)                         | 3.84 Source: HSDB |
| TGMDA, multifunctional epoxide (28768-32-3)                             |                   |
| Partition coefficient n-octanol/water (Log Pow) 2.12                    |                   |
| 1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether (2425-79-8) |                   |
| Partition coefficient n-octanol/water (Log Pow) -0.269 (25°C)           |                   |

# 12.4. Mobility in soil

| TGMDA, multifunctional epoxide (28768-32-3)                             |   |
|---|---|
| Mobility in soil  | 67.88 Source: EPI Suite                               |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc)              | 2.53  |
| 1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether (2425-79-8) |   |
| Mobility in soil  | 0.48 Source: Quantitative Structure Activity Relation |

# 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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HP Code

- : HP3 "Flammable:"
  - flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
  - flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
  - flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
  - flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
  - water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
  - other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
  - HP4 "Irritant skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
  - HP13 "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
  - HP14 "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

14.4. Packing group

| ADR  | IMDG  | IATA  | ADN   | RID   |
|--|---|---|---|---|
| Special provision(s) applied : 375   | Special provision(s) applied : 969  | Special provision(s) applied<br>: A197  | Special provision(s) applied : 375  | Special provision(s) applied : 375  |
| or having a net mass per sin   | ried in single or combination p<br>gle or inner packaging of 5 kg<br>l provisions of 4.1.1.1, 4.1.1.2 | or less for solids, are not subj  | • • • •   |   |
| 14.1. UN number  |   |   |   |   |
| UN 3082  | UN 3082   | UN 3082   | UN 3082   | UN 3082   |
| 14.2. UN proper shippin  | g name  |   |   |   |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)                                     | Environmentally hazardous<br>substance, liquid, n.o.s.<br>(Epoxy resin)           | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)                 |
| Transport document descr   | iption  |   |   |   |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin), 9, III, MARINE POLLUTANT   | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin), 9, III |
| 14.3. Transport hazard class(es)   |   |   |   |   |
| 9  | 9   | 9   | 9   | 9   |
| <b>A</b>   | <b>A</b>  | <b>A</b>  | <b>A</b>  | <b>A</b>  |

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| ADR                                    | IMDG   | IATA                               | ADN                                | RID                                |
|--|--|------------------------------------|------------------------------------|------------------------------------|
| 14.5. Environmental hazards            |  |                                    |                                    |                                    |
| Dangerous for the environment: Yes     | Dangerous for the<br>environment: Yes<br>Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| No supplementary information available |  |                                    |                                    |                                    |

#### 14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates :

90 3082

Tunnel restriction code (ADR) : EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1

Packing instructions (IMDG): LP01, P001Special packing provisions (IMDG): PP1IBC packing instructions (IMDG): IBC03Tank instructions (IMDG): T4Tank special provisions (IMDG): TP1, TP29EmS-No. (Fire): F-A

EmS-No. (Spillage) : S-F Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

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Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

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

Not applicable

## **SECTION 15: Regulatory information**

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

# 15.1.1. EU-Regulations

# **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

# **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors) Please see https://ec.europa.eu/home-affairs/system/files/2021-11/list\_of\_competent\_authorities\_and\_national\_contact\_points\_en.pdf

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

| Abbreviations and acr | onyms:  |  |
|-----------------------|---|--|
| ADN                   | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |  |
| ADR                   | European Agreement concerning the International Carriage of Dangerous Goods by Road             |  |
| ATE                   | Acute Toxicity Estimate   |  |
| BCF                   | Bioconcentration factor   |  |
| BLV                   | Biological limit value  |  |
| BOD                   | Biochemical oxygen demand (BOD)   |  |
| COD                   | Chemical oxygen demand (COD)  |  |
| DMEL                  | Derived Minimal Effect level  |  |
| DNEL                  | Derived-No Effect Level   |  |
| EC-No.                | European Community number   |  |
| EC50                  | Median effective concentration  |  |
| EN                    | European Standard   |  |
| IARC                  | International Agency for Research on Cancer   |  |
| IATA                  | International Air Transport Association   |  |
| IMDG                  | International Maritime Dangerous Goods  |  |
| LC50                  | Median lethal concentration   |  |
| LD50                  | Median lethal dose  |  |
| LOAEL                 | Lowest Observed Adverse Effect Level  |  |
| NOAEC                 | No-Observed Adverse Effect Concentration  |  |
| NOAEL                 | No-Observed Adverse Effect Level  |  |
| NOEC                  | No-Observed Effect Concentration  |  |
| OECD                  | Organisation for Economic Co-operation and Development  |  |
| OEL                   | Occupational Exposure Limit   |  |
| PBT                   | Persistent Bioaccumulative Toxic  |  |
| PNEC                  | Predicted No-Effect Concentration   |  |
| RID                   | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |  |
| SDS                   | Safety Data Sheet   |  |
| STP                   | Sewage treatment plant  |  |
| ThOD                  | Theoretical oxygen demand (ThOD)  |  |
| TLM                   | Median Tolerance Limit  |  |
| VOC                   | Volatile Organic Compounds  |  |
| CAS-No.               | Chemical Abstract Service number  |  |
| N.O.S.                | Not Otherwise Specified   |  |
| vPvB                  | Very Persistent and Very Bioaccumulative  |  |
| ED                    | Endocrine disrupting properties   |  |

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Full text of H- and EUH-statements: |   |  |
|-------------------------------------|---|--|
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4                               |  |
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4                               |  |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                 |  |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |  |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                     |  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                     |  |
| H302                                | Harmful if swallowed.   |  |
| H312                                | Harmful in contact with skin.                                     |  |
| H315                                | Causes skin irritation.   |  |
| H317                                | May cause an allergic skin reaction.                              |  |
| H318                                | Causes serious eye damage.  |  |
| H319                                | Causes serious eye irritation.                                    |  |
| H332                                | Harmful if inhaled.   |  |
| H411                                | Toxic to aquatic life with long lasting effects.                  |  |
| H412                                | Harmful to aquatic life with long lasting effects.                |  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                             |  |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                    |  |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 01/12/2022 Version: 8.0

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

#### 1.1. Product identifier

Product form : Substance

Trade name : TC160 Tool Cast High Temp Epoxy Casting Hardener

Product code : EP-TC160-B

UFI : 9FC7-S9KS-F000-7MVN

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

#### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Use of the substance/mixture : Casting compound

#### 1.2.2. Uses advised against

No additional information available

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

Easy Composites Ltd

Unit 39, Park Hall Business Village, Stoke on Trent,

Staffordshire,

ST3 5XA.

United Kingdom.

Tel: +44 (0)1782 454499 -sales@easycomposites.com

# 1.4. Emergency telephone number

Emergency number : +44 (0)1782 454499 (working hours only)

# **SECTION 2: Hazards identification**

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

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302
Skin corrosion/irritation, Category 1 H314
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

# 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :





GHS05 GHS07

Signal word (CLP) : Danger

Hazard statements (CLP) : H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves, protective clothing, eye protection.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Name : H425

| Name   | Product identifier  | %   |
|--|---|-----|
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | CAS-No.: 2855-13-2<br>EC-No.: 220-666-8<br>EC Index-No.: 612-067-00-9<br>REACH-no: 01-2119514687-<br>32 | 100 |

#### 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a

physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe

dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not

breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace. Do not eat, drink or smoke when using this product. Always

wash hands after handling the product.

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

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

# 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

No additional information available

## 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

# Safety Data Sheet

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#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

#### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

# 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : clear.
Odour : Amine-like.
Odour threshold : No data available

pH : 11.6

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 10 °C

Freezing point : No data available

Boiling point :  $247 \, ^{\circ}\text{C}$  Flash point :  $110 \, ^{\circ}\text{C}$ 

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : 0.0157 hPa (20°C)
Relative vapour density at 20°C : No data available
Relative density : No data available

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Density :  $0.9 - 0.95 \text{ g/cm}^3 (25^{\circ}\text{C})$ Solubility : Water: completely miscible

Partition coefficient n-octanol/water (Log Pow) : 0.99

Viscosity, kinematic : No data available
Viscosity, dynamic : 10 – 20 mPa.s (25°C)
Explosive properties : No data available
Oxidising properties : No data available
Lower explosive limit (LEL) : 1.2 vol %

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

#### 

Skin corrosion/irritation : Causes severe skin burns.

pH: 11.6

Serious eye damage/irritation : Causes serious eye damage.

pH: 11.6

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

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2) |   |
|--|---|
| LOAEL (oral, rat, 90 days)                               | 160 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-<br>Day Oral Toxicity Study in Rodents) |
| Aspiration hazard  | : Not classified  |
| 2 aminomothyl 2 5 5 trimothyloxolohoxylamina (2955 12.2) |   |

| 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2) |                      |  |
|--|----------------------|--|
|  | Viscosity, kinematic | 19 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)' |

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

Not rapidly degradable

ong–term : Harmful to aquatic life with long lasting effects.

| 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2) |  |  |  |
|--|--|--|--|
| LC50 - Fish [1]  | 110 mg/l Test organisms (species): Leuciscus idus  |  |  |
| EC50 - Crustacea [1]                                     | 17.4 mg/l  |  |  |
| EC50 72h - Algae [1]                                     | 37 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)   |  |  |
| EC50 72h - Algae [2]                                     | > 50 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |  |  |
| LOEC (chronic)   | 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                     |  |  |
| NOEC (chronic)   | 3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                      |  |  |

#### 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

| Hardener H425                                   |      |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 0.99 |

# 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

HP Code

: HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

HP8 - "Corrosive:" waste which on application can cause skin corrosion.

HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR   | IMDG   | IATA  | ADN   | RID   |
|---|--|---|---|---|
| 14.1. UN number   |  |   |   |   |
| UN 2289   | UN 2289  | UN 2289   | UN 2289   | UN 2289   |
| 14.2. UN proper shippin   | g name   |   |   |   |
| ISOPHORONEDIAMINE (Isophoronediamine)                               | ISOPHORONEDIAMINE (Isophoronediamine)                        | Isophoronediamine<br>(Isophoronediamine)                    | ISOPHORONEDIAMINE (Isophoronediamine)                       | ISOPHORONEDIAMINE (Isophoronediamine)                       |
| Transport document descr  | iption   |   |   |   |
| UN 2289<br>ISOPHORONEDIAMINE<br>(Isophoronediamine), 8, III,<br>(E) | UN 2289<br>ISOPHORONEDIAMINE<br>(Isophoronediamine), 8, III  | UN 2289<br>Isophoronediamine<br>(Isophoronediamine), 8, III | UN 2289<br>ISOPHORONEDIAMINE<br>(Isophoronediamine), 8, III | UN 2289<br>ISOPHORONEDIAMINE<br>(Isophoronediamine), 8, III |
| 14.3. Transport hazard o  | class(es)  |   |   |   |
| 8   | 8  | 8   | 8   | 8   |
| 8   | 8  | 8   | 8   | 8   |
| 14.4. Packing group   |  |   |   |   |
| III   | III  | III   | III   | III   |
| 14.5. Environmental haz   | ards   |   |   |   |
| Dangerous for the environment: No                                   | Dangerous for the<br>environment: No<br>Marine pollutant: No | Dangerous for the environment: No                           | Dangerous for the environment: No                           | Dangerous for the environment: No                           |

## 14.6. Special precautions for user

# Overland transport

Classification code (ADR) : C7
Limited quantities (ADR) : 51
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1

(ADR)

Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Hazard identification number (Kemler No.) : 80

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Orange plates :

80 2289

Tunnel restriction code (ADR) : E EAC code : 2X

Transport by sea

: 5 L Limited quantities (IMDG) Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-B Stowage category (IMDG) : A Segregation (IMDG) : SG35

Properties and observations (IMDG) : Colourless, slightly hygroscopic liquid with a slight amine odour. Combustible. Miscible with

water. Harmful if swallowed. Irritating to skin, eyes and mucous membranes.

Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y841 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 852 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 856 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A803 ERG code (IATA) : 8L

Inland waterway transport

Classification code (ADN) : C7
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : C7
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1

(RID)

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 80

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

Not applicable

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

#### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

| Abbreviations and acronyms: |   |  |
|-----------------------------|---|--|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |  |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |  |
| ATE                         | Acute Toxicity Estimate   |  |
| BCF                         | Bioconcentration factor   |  |
| BLV                         | Biological limit value  |  |
| BOD                         | Biochemical oxygen demand (BOD)   |  |
| COD                         | Chemical oxygen demand (COD)  |  |
| DMEL                        | Derived Minimal Effect level  |  |
| DNEL                        | Derived-No Effect Level   |  |
| EC-No.                      | European Community number   |  |
| EC50                        | Median effective concentration  |  |
| EN                          | European Standard   |  |
| IARC                        | International Agency for Research on Cancer   |  |
| IATA                        | International Air Transport Association   |  |

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Abbreviations and acronyms: |  |  |
|-----------------------------|--|--|
| IMDG                        | International Maritime Dangerous Goods                                       |  |
| LC50                        | Median lethal concentration  |  |
| LD50                        | Median lethal dose   |  |
| LOAEL                       | Lowest Observed Adverse Effect Level   |  |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |  |
| NOAEL                       | No-Observed Adverse Effect Level   |  |
| NOEC                        | No-Observed Effect Concentration   |  |
| OECD                        | Organisation for Economic Co-operation and Development                       |  |
| OEL                         | Occupational Exposure Limit  |  |
| РВТ                         | Persistent Bioaccumulative Toxic   |  |
| PNEC                        | Predicted No-Effect Concentration  |  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |  |
| SDS                         | Safety Data Sheet  |  |
| STP                         | Sewage treatment plant   |  |
| ThOD                        | Theoretical oxygen demand (ThOD)   |  |
| TLM                         | Median Tolerance Limit   |  |
| VOC                         | Volatile Organic Compounds   |  |
| CAS-No.                     | Chemical Abstract Service number   |  |
| N.O.S.                      | Not Otherwise Specified  |  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |  |
| ED                          | Endocrine disrupting properties  |  |

| Full text of H- and EUH-statements: |   |  |
|-------------------------------------|---|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                 |  |
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |  |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                     |  |
| H302                                | Harmful if swallowed.   |  |
| H314                                | Causes severe skin burns and eye damage.                          |  |
| H317                                | May cause an allergic skin reaction.                              |  |
| H318                                | Causes serious eye damage.  |  |
| H412                                | Harmful to aquatic life with long lasting effects.                |  |
| Skin Corr. 1                        | Skin corrosion/irritation, Category 1                             |  |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                    |  |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.