



SAFETY DATA SHEET
TC160 Tool Cast High Temp Epoxy Casting Resin

Page: 1
Compilation date: 05/06/2015
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Revision No: 8

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

1.1. Product identifier

Product name: TC160 Tool Cast High Temp Epoxy Casting Resin
Product code: EP-TC160-A

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

Use of substance / mixture: PC1: Adhesives, sealants. PC9a: Coatings and paints, thinners, paint removers. PC9b: Fillers, putties, plasters, modelling clay. PC32: Polymer preparations and compounds. PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations* and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC19: Hand-mixing with intimate contact and only PPE available ERC2: Formulation of preparations* ERC3: Formulation in materials ERC5: Industrial use resulting in inclusion into or onto a matrix ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

1.3. Details of the supplier of the safety data sheet

Company name: Easy Composites Ltd
Unit 39, Park Hall Business Village
Longton, Stoke on Trent
Staffordshire
ST3 5XA
United Kingdom
Tel: +44 (0) 1782 454499
Email: sales@easycomposites.co.uk

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1.4. Emergency telephone number

Emergency tel: +44 (0) 1782 454499
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317

Most important adverse effects: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms: GHS07: Exclamation mark

GHS09: Environmental



Signal words: Warning

Precautionary statements: P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

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

P321: Specific treatment (see instructions on this label)

P362+P364: Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

[cont...]

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REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE &[2-({ 2-[4-(OXIRAN-2-YLMETHOXY)BENZYL] PHENOXY} METHYL)OXIRANE &[2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE - REACH registered number(s): 01-2119454392-40

701-263-0	9003-36-5	-	Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411	1-25%
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BIS [4-(2,3-EPOXYPROPOXY) PHENYL] PROPANE - REACH registered number(s): 01-2119456619-26

216-823-5	1675-54-3	-	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411	1-25%
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1,4-BIS(2,3-EPOXYPROPOXY) BUTANE - REACH registered number(s): 01-2119494060-45

219-371-7	2425-79-8	-	Acute Tox. 4: H332; Acute Tox. 4: H312; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317	1-25%
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4,4'-METHYLENEBIS[N,N-BIS(2,3-EPOXYPROPYL)ANILINE] - REACH registered number(s): 01-2119472303-45

249-204-3	28768-32-3	-	Aquatic Chronic 2: H411; Skin Sens. 1: H317	1-25%
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N,N-DIGLYCIDYL ANILINE - REACH registered number(s): 01-2120782027-53

218-259-5	2095-06-9	-	Acute Tox. 4: H302; Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; Muta. 2: H341; Aquatic Chronic 2: H411	0.05-1%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: Exposure may cause coughing or wheezing.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

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

Immediate / special treatment: Not applicable.

[cont...]

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Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.
Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

[cont...]

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DNEL/PNEC Values

Hazardous ingredients:

REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE & 2-[4-(OXIRAN-2-YLMETHOXY)BENZOYL]PROPANE

Type	Exposure	Value	Population	Effect
DNEL	Oral	6.25 mg/kg bw/day	General Population	Systemic
DNEL	Dermal	62.5 mg/kg bw/day	General Population	Systemic
DNEL	Dermal	104.15 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	8.7 mg/m ³	General Population	Systemic
DNEL	Inhalation	29.39 mg/m ³	Workers	Systemic
PNEC	Fresh water	0.003 mg/l	-	-
PNEC	Marine water	0.0003 mg/l	-	-
PNEC	Fresh water sediments	0.294 mg/kg	-	-
PNEC	Marine sediments	0.0294 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	10 mg/l	-	-
PNEC	Soil (agricultural)	0.237 mg/kg soil dw	-	-

BIS [4-(2,3-EPOXYPROPOXY) PHENYL] PROPANE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	8.33 mg/kg/day	Workers	Systemic
DNEL	Inhalation	12.25 mg/kg/day	Workers	Systemic
DNEL	Dermal	3.571 mg/kg/day	Consumers	Systemic
DNEL	Oral	0.75 mg/kg/day	Consumers	Systemic
PNEC	Fresh water	0.006 mg/l	-	-
PNEC	Marine water	0.0006 mg/l	-	-
PNEC	Microorganisms in sewage treatment	10 mg/l	-	-
PNEC	Fresh water sediments	0.996 mg/kg	-	-
PNEC	Marine sediments	0.0996 mg/kg	-	-
PNEC	Soil (agricultural)	0.196 mg/kg/day	-	-

1,4-BIS(2,3-EPOXYPROPOXY) BUTANE

Type	Exposure	Value	Population	Effect
DNEL	Oral (repeated dose)	0.56 mg/kg bw/day	General Population	Systemic
DNEL	Dermal (repeated dose)	5.56 mg/kg bw/day	General Population	Systemic
DNEL	Dermal (repeated dose)	9.26 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation (repeated dose)	0.48 mg/m ³	General Population	Systemic
DNEL	Inhalation (repeated dose)	1.63 mg/m ³	Workers	Systemic

[cont...]

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PNEC	Fresh water	0.024 mg/l	-	-
PNEC	Marine water	0.0024 mg/l	-	-
PNEC	Fresh water sediments	0.084 mg/l	-	-
PNEC	Marine sediments	0.0084 mg/l	-	-
PNEC	Microorganisms in sewage treatment	100 mg/l	-	-
PNEC	Soil (agricultural)	0.0027 mg/kg doil dw	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Grey

Odour: Characteristic odour

Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: No data available.

Viscosity: 140000 mPas (25°C)

Boiling point/range°C: No data available.

Melting point/range°C: No data available.

Flammability limits %: lower: No data available.

upper: No data available.

Flash point°C: No data available.

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: No data available.

Vapour pressure: No data available.

Relative density: 1.83 - 1.88

pH: No data available.

VOC g/l: No data available.

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

[cont...]

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10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE & [2-({ 2-[4-(OXIRAN-2-YLMETHOXY)BENZYL] PHENOXY} METHYL)OXIRANE & [2,2'-[METHYLENEBIS(2,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE

DERMAL	RAT	LD50	> 2000	mg/kg
ORAL	RAT	LD50	> 5000	mg/kg

BIS [4-(2,3-EPOXYPROPOXY) PHENYL] PROPANE

DERMAL	RBT	LD50	23000	mg/kg
IPR	RAT	LD50	2200	mg/kg
ORL	MUS	LD50	15600	mg/kg
ORL	RAT	LD50	11300	µl/kg

1,4-BIS(2,3-EPOXYPROPOXY) BUTANE

DERMAL	RBT	LD50	> 2150	mg/kg
ORL	RAT	LD50	1163	mg/kg

N,N-DIGLYCIDYL ANILINE

DERMAL	RBT	LD50	3560	mg/kg
ORAL	RAT	LD50	1620	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated

[cont...]

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Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: Exposure may cause coughing or wheezing.

Delayed / immediate effects: Delayed effects can be expected after long-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

REACTION MASS OF 2,2'-[METHYLENEBIS(4,1-PHENYLENEOXYMETHYLENE)]DIOXIRANE &[2-({ 2-[4-(OXIRAN-2-YLMETHOXY)BE

ALGAE	72H EC50	1.8	mg/l
Daphnia magna	48H EC50	2.55	mg/l
FISH	96H LC50	2.54	mg/l

BIS [4-(2,3-EPOXYPROPOXY) PHENYL] PROPANE

Daphnia magna	48H EC50	1.8	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	11	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	2	mg/l

1,4-BIS(2,3-EPOXYPROPOXY) BUTANE

Daphnia magna	24H EC50	75	mg/l
FISH	96H LC50	19.8	mg/l

4,4'-METHYLENEBIS[N,N-BIS(2,3-EPOXYPROPYL)ANILINE]

ALGAE	96H ErC50	38.234	mg/l
CRUSTACEA	48h LC50	14.682	mg/l
FISH	96H LC50	2.454	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

[cont...]

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12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Epoxy resin)

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

[cont...]

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Section 16: Other information

Other information

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

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H341: Suspected of causing genetic defects.
H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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

1.1. Product identifier

Product name: TC160 Tool Cast High Temp Epoxy Casting Hardener

REACH registered number(s): 01-2119514687-32

CAS number: 2855-13-2

EINECS number: 220-666-8

Index number: 612-067-00-9

Product code: EP-TC160-B

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

Use of substance / mixture: PC1: Adhesives, sealants. PC9a: Coatings and paints, thinners, paint removers. PC9b: Fillers, putties, plasters, modelling clay. PC32: Polymer preparations and compounds. PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations* and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC19: Hand-mixing with intimate contact and only PPE available ERC2: Formulation of preparations* ERC3: Formulation in materials ERC5: Industrial use resulting in inclusion into or onto a matrix ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

1.3. Details of the supplier of the safety data sheet

Company name: Easy Composites Ltd
Unit 39, Park Hall Business Village
Longton, Stoke on Trent
Staffordshire
ST3 5XA
United Kingdom

Tel: +44 (0) 1782 454499

Email: sales@easycomposites.co.uk

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1.4. Emergency telephone number

Emergency tel: +44 (0) 1782 454499
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302+H312; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; Skin Sens. 1: H317

Most important adverse effects: Harmful if swallowed or in contact with skin Causes severe skin burns and eye damage.
May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

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

Hazard pictograms: GHS05: Corrosion
GHS07: Exclamation mark



Signal words: Danger

Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.
P302+P352: IF ON SKIN: Wash with plenty of water.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

CAS number: 2855-13-2

EINECS number: 220-666-8

REACH registered number(s): 01-2119514687-32

[cont...]

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Section 4: First aid measures

4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.
- Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

- Skin contact:** Severe burns may occur. There may be irritation and redness at the site of contact.
- Eye contact:** There may be severe pain. Corneal burns may occur. May cause permanent damage.
- Ingestion:** Corrosive burns may appear around the lips. There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
- Inhalation:** There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Dry chemical powder. Alcohol or polymer foam. Water spray. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area

[cont...]

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with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Mix with sand or vermiculite. Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Avoid incompatible materials and conditions - see section 10 of SDS.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

Hazardous ingredients:

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	20.1 mg/m ³	Workers	-
PNEC	Fresh water	0.06 mg/l	-	-
PNEC	Marine water	0.006 mg/l	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Gas/vapour filter, type K: ammonia and derivatives (EN141).

[cont...]

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Hand protection: Impermeable gloves. Butyl gloves. Nitrile gloves. PVC gloves.

Eye protection: Safety glasses with side-shields. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental: Ensure all engineering measures mentioned in section 7 of SDS are in place.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Pale yellow

Odour: Unpleasant

Solubility in water: Miscible

Viscosity: 15 mPas (25°C)

Boiling point/range°C: 247

Melting point/range°C: 10

Flash point°C: >100

Autoflammability°C: Not applicable.

Relative density: 0.90 - 0.95

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may generate enough heat and gases for fires/explosions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Direct sunlight. Heat. Sources of ignition.

10.5. Incompatible materials

Materials to avoid: Acids. Oxidising agents. Metals.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

[cont...]

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Hazardous ingredients:

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

DERMAL	RBT	LD50	1840	mg/kg
ORAL	RAT	LD50	1030	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	DRM ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Severe burns may occur. There may be irritation and redness at the site of contact.

Eye contact: There may be severe pain. Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

BACTERIA	15H EC10	1120	mg/l
Daphnia magna	48H EC50	23	mg/l
Scenedesmus Subspicatus	72H EC50	> 50	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	110	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

[cont...]

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12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 08 04 99

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN2289

14.2. UN proper shipping name

Shipping name: ISOPHORONEDIAMINE

(Contains: Isophoronediamine)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: Yes

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

[cont...]

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Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302+H312: Harmful if swallowed or in contact with skin

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.