

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

Date of last issue: 22.10.2021  
Date of first issue: 27.12.2012

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

**1.1 Product identifier** : GlassCast 10/50 Epoxy Casting Resin  
Trade name

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Type of Application (Use) : Casting, Electrical Insulation

#### 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

**1.4 Emergency telephone number** +44 (0) 1782 454499  
(office hours only)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

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Hazard statements : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
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/ doctor.  
P391 Collect spillage.

### Hazardous components which must be listed on the label:

bis-[4-(2,3-epoxypropoxy)phenyl]propane

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

1,4-bis(2,3 epoxypropoxy)butane

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl Sebacate

### Additional Labelling

EUH205 Contains epoxy constituents. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Modified epoxy resin

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
bis-[4-(2,3-epoxypropoxy)phenyl]propane	1675-54-3 216-823-5 603-073-00-2 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411  specific concentration limit Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 % STOT RE 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	>= 50 - <= 100
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2 271-846-8 603-103-00-4 01-2119485289-22	Skin Irrit. 2; H315 Skin Sens. 1; H317	>= 10 - < 12,5
1,4-bis(2,3 epoxypropoxy)butane	2425-79-8 219-371-7 603-072-00-7 01-2119494060-45	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 5 - < 7
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl Sebacate	1065336-91-5 01-2119491304-40	Skin Sens. 1A; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1  M-Factor (Chronic aquatic toxicity): 1	>= 0,1 - < 0,25

# SAFETY DATA SHEET

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For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Keep warm and in a quiet place.  
Show this safety data sheet to the doctor in attendance.  
Take off all contaminated clothing immediately.
- If inhaled : Move to fresh air.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
Do NOT use solvents or thinners.  
If on clothes, remove clothes.  
If skin irritation persists, call a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.  
If easy to do, remove contact lens, if worn.
- If swallowed : Keep at rest.  
Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
If symptoms persist, call a physician.

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

- Symptoms : irritant effects  
Redness  
sensitising effects

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

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Foam  
Sand  
Carbon dioxide (CO<sub>2</sub>)  
Water mist
- Unsuitable extinguishing : Water spray jet

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according to Regulation (EC) No. 1907/2006

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8.0 SDB\_GB

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Date of last issue: 22.10.2021  
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media

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

Specific hazards during fire-fighting : The pressure in sealed containers can increase under the influence of heat.  
Cool closed containers exposed to fire with water spray.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Further information : In the event of fire and/or explosion do not breathe fumes.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Immediately evacuate personnel to safe areas.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

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

Personal precautions : Refer to protective measures listed in sections 7 and 8.  
Evacuate personnel to safe areas.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

### 6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.  
Try to prevent the material from entering drains or water courses.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

For personal protection see section 8.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Version  
8.0 SDB\_GB

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Avoid inhalation, ingestion and contact with skin and eyes. Wear personal protective equipment. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.

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

- Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.
- Advice on common storage : Keep away from oxidizing agents, strongly acid or alkaline materials and amines. Keep product and empty container away from heat and sources of ignition. Keep away from food and drink.
- Further information on storage stability : Stable at normal ambient temperature and pressure.

#### 7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.  
Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
bis-[4-(2,3-epoxypropoxy)phenyl]propane	Workers	Skin contact	Acute systemic effects, Long-term systemic effects	8,33 mg/kg
	Workers	Inhalation	Acute systemic effects, Long-term local effects	12,25 mg/m <sup>3</sup>

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

Date of last issue: 22.10.2021  
Date of first issue: 27.12.2012

	Consumers	Skin contact	Acute systemic effects, Long-term systemic effects	3,571 mg/kg
	Consumers	Ingestion	Acute systemic effects, Long-term systemic effects	0,75 mg/kg
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Workers	Skin contact	Long-term systemic effects	3,9 mg/kg
	Workers	Inhalation	Long-term systemic effects	13,8 mg/m3

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Fresh water	0,006 mg/l
	Marine water	0,0006 mg/l
	Intermittent releases	0,018 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0,996 mg/kg
	Marine sediment	0,0996 mg/kg
	Soil	0,196 mg/kg
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Sewage treatment plant	10 mg/l
	Fresh water	0,0072 mg/l
	Marine water	0,00072 mg/l
	Fresh water sediment	66,77 mg/kg
	Marine sediment	6,677 mg/kg
	Soil	80,12 mg/kg

## 8.2 Exposure controls

### Engineering measures

Effective exhaust ventilation system  
effective ventilation in all processing areas

### Personal protective equipment

- Eye protection : Do not wear contact lenses.  
Safety glasses with side-shields conforming to EN166  
Ensure that eyewash stations and safety showers are close to the workstation location.
- Hand protection  
Material : Protective gloves complying with EN 374.
- Skin and body protection : Protective suit
- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.  
In the case of vapour formation use a respirator with an approved filter.  
Equipment should conform to EN 14387  
Apply technical measures to comply with the occupational exposure limits.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

Date of last issue: 22.10.2021  
Date of first issue: 27.12.2012

This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.

Protective measures : Avoid contact with skin.  
Wear suitable protective equipment.

### SECTION 9: Physical and chemical properties

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

Physical state : liquid

Colour : colourless

Odour : slight

Odour Threshold : not determined

Melting point/freezing point : Not applicable

Boiling point/boiling range : > 200 °C

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Flash point : 150 °C

Ignition temperature : Not applicable

Auto-ignition temperature : Not applicable

  

Decomposition temperature : Method: No data available

pH : 4 - 6  
Concentration: 1 %

Viscosity

    Viscosity, dynamic : 700 - 1.000 mPa.s (25 °C)

    Viscosity, kinematic : not determined

Solubility(ies)

    Water solubility : not determined

    Solubility in other solvents : not determined

Partition coefficient: n- : No data available



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

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Date of first issue: 27.12.2012

octanol/water

Vapour pressure : not determined

Density : 1,12 g/cm<sup>3</sup> (25 °C)

Bulk density : not determined

Relative vapour density : not determined

Particle characteristics  
Particle size : Not applicable

### 9.2 Other information

Explosives : Not applicable

Oxidizing properties : Not applicable

Self-ignition : Not applicable

Evaporation rate : not determined

Surface tension : not determined

Sublimation point : Not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with the following substances:  
Bases  
Strong oxidizing agents  
Avoid amines.

### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.

### 10.6 Hazardous decomposition products

This product may release the following:  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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Version  
8.0 SDB\_GB

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

###### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute toxicity (other routes of administration) :  
Remarks: No data available

###### Components:

###### **bis-[4-(2,3-epoxipropoxy)phenyl]propane:**

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 420  
GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

##### Skin corrosion/irritation

###### Product:

Remarks : No data available

###### Components:

###### **bis-[4-(2,3-epoxipropoxy)phenyl]propane:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Skin irritation  
GLP : yes

##### Serious eye damage/eye irritation

###### Product:

Remarks : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

Date of last issue: 22.10.2021  
Date of first issue: 27.12.2012

### Respiratory or skin sensitisation

**Product:**

Remarks : No data available

**Components:**

**bis-[4-(2,3-epoxipropoxy)phenyl]propane:**

Test Type : Mouse Local Lymph Node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitisation by skin contact.  
GLP : yes

### Carcinogenicity

**Product:**

Remarks : No data available

### Reproductive toxicity

**Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### STOT - single exposure

**Product:**

Remarks : No data available

### STOT - repeated exposure

**Product:**

Remarks : No data available

### Repeated dose toxicity

**Product:**

Remarks : No data available

### Aspiration toxicity

**Components:**

**bis-[4-(2,3-epoxipropoxy)phenyl]propane:**

No aspiration toxicity classification

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

Date of last issue: 22.10.2021  
Date of first issue: 27.12.2012

### 11.2 Information on other hazards

#### Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

**Product:**

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

**Components:**

**bis-[4-(2,3-epoxipropoxy)phenyl]propane:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 1,7 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,3 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

**Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl Sebacate:**

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

Date of last issue: 22.10.2021  
Date of first issue: 27.12.2012

### 12.2 Persistence and degradability

**Product:**

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

**Components:**

**bis-[4-(2,3-epoxipropoxy)phenyl]propane:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301F  
GLP: yes

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

**Components:**

**bis-[4-(2,3-epoxipropoxy)phenyl]propane:**

Partition coefficient: n-octanol/water : log Pow: 3,242 (25 °C)  
pH: 7,1  
Method: OECD Test Guideline 117  
GLP: yes

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

Date of last issue: 22.10.2021  
Date of first issue: 27.12.2012

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.  
Container hazardous when empty.  
Do not dispose of with domestic refuse.  
Do not mix waste streams during collection.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR/RID/ADN : UN 3082  
IMDG : UN 3082  
IATA : UN 3082

#### 14.2 UN proper shipping name

ADR/RID/ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(bis-[4-(2,3-epoxipropoxy)phenyl]propane)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(bis-[4-(2,3-epoxipropoxy)phenyl]propane)

IATA : Environmentally hazardous substance, liquid, n.o.s.  
(bis-[4-(2,3-epoxipropoxy)phenyl]propane)

#### 14.3 Transport hazard class(es)

ADR/RID/ADN : 9  
IMDG : 9  
IATA : 9

#### 14.4 Packing group

ADR/RID/ADN  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : -  
Remarks : ADR: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

Date of last issue: 22.10.2021  
Date of first issue: 27.12.2012

subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Remarks : IMDG Code segregation group - none  
IMDG: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.

### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing group : III  
Labels : Miscellaneous  
Remarks : IATA: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

## 14.5 Environmental hazards

### ADR/RID/ADN

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

Remarks : The transport of dangerous goods, including their loading and unloading, must be done by people who received the neces-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

Date of last issue: 22.10.2021  
Date of first issue: 27.12.2012

sary training required by Modal Regulations.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

: Not applicable

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable

Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E2 ENVIRONMENTAL HAZARDS

Seveso III Directive (2012/18/EU) implemented by Control of Major Accident Hazards Regula- E2 ENVIRONMENTAL HAZARDS



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

Date of last issue: 22.10.2021  
Date of first issue: 27.12.2012

tions 2015 (COMAH)

### 15.2 Chemical safety assessment

Not applicable

## SECTION 16: Other information

### Full text of H-Statements

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.
H361f	: Suspected of damaging fertility.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure-Activity Relationship

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## GlassCast 10/50 Epoxy Casting Resin

Version  
8.0 SDB\_GB

Revision Date:  
01.07.2022

Date of last issue: 22.10.2021  
Date of first issue: 27.12.2012

tative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Training advice : Provide adequate information, instruction and training for operators.

### Classification of the mixture:

Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

GB / EN

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

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

**1.1 Product identifier** : GlassCast 10 Epoxy Hardener  
Trade name

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Use of the : Epoxy Hardener  
Substance/Mixture

#### 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

**1.4 Emergency telephone number** +44 (0) 1782 454499  
(office hours only)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



**GlassCast 10 Epoxy Hardener**

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

Signal word	: Danger	
Hazard statements	: H302	Harmful if swallowed.
	: H314	Causes severe skin burns and eye damage.
	: H317	May cause an allergic skin reaction.
	: H411	Toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	: EUH071	Corrosive to the respiratory tract.
Precautionary statements	: <b>Prevention:</b>	
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
	<b>Response:</b>	
	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
	P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ 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/ doctor.	

Hazardous components which must be listed on the label:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

**3.2 Mixtures**

Chemical nature : Cycloaliphatic amine based mixture

**Hazardous components**

Chemical name	CAS-No. EC-No./List Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
3-aminomethyl-3,5,5-	2855-13-2	Acute Tox.4; H302	>= 30 - < 50

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

trimethylcyclohexylamine	220-666-8 01-2119514687-32	Acute Tox.4; H312 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic3; H412	
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	>= 20 - < 25
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1- chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6- diamine	153195-44-9  01-2120781950-47- 0001	Skin Corr.1B; H314 Eye Dam.1; H318 Aquatic Chronic1; H400 Aquatic Acute1; H400	>= 12,5 - < 20
Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-(2- aminomethylethoxy)-	9046-10-0  01-2119557899-12	Skin Corr.1C; H314 Eye Dam.1; H318 Aquatic Chronic3; H412	>= 10 - < 12,5
2,2,4(or 2,4,4)-trimethylhexane-1,6- diamine	25513-64-8 247-063-2 01-2119560598-25	Acute Tox.4; H302 Skin Corr.1A; H314 Eye Dam.1; H318 Skin Sens.1A; H317	>= 1 - < 3

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Show this safety data sheet to the doctor in attendance.  
Keep warm and in a quiet place.  
Take off all contaminated clothing immediately.
- If inhaled : Move to fresh air.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
Do NOT use solvents or thinners.  
If on clothes, remove clothes.  
Burns must be treated by a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
If eye irritation persists, consult a specialist.  
If easy to do, remove contact lens, if worn.

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

If swallowed : Do NOT induce vomiting.  
If a person vomits when lying on his back, place him in the recovery position.  
Call a physician immediately.  
Give small amounts of water to drink.

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

Symptoms : Burn  
superficial burning sensation  
Redness  
Severe irritation

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

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry powder  
Water mist

Unsuitable extinguishing media : None known.

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

Specific hazards during firefighting : The pressure in sealed containers can increase under the influence of heat.  
Cool closed containers exposed to fire with water spray.  
Hazardous decomposition products formed under fire conditions.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Further information : In the event of fire and/or explosion do not breathe fumes.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Immediately evacuate personnel to safe areas.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

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### SECTION 6: Accidental release measures

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

Personal precautions : Refer to protective measures listed in sections 7 and 8.  
Evacuate personnel to safe areas.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

#### 6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.  
Try to prevent the material from entering drains or water courses.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Pick up and transfer to properly labelled containers.

#### 6.4 Reference to other sections

For personal protection see section 8.

---

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours or spray mist.  
Avoid inhalation, ingestion and contact with skin and eyes.  
Wear personal protective equipment.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

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

- Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sunlight.
- Further information on storage conditions : Protect from moisture.
- Advice on common storage : Keep away from isocyanates.  
Do not store near acids.  
Keep away from oxidizing agents.
- Other data : Stable at normal ambient temperature and pressure.

### 7.3 Specific end use(s)

- Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

- benzyl alcohol : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Short-term exposure, Systemic effects  
Value: 450 mg/m<sup>3</sup>
- End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure, Systemic effects  
Value: 90 mg/m<sup>3</sup>
- End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Short-term exposure, Systemic effects  
Value: 47 mg/kg
- End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term exposure, Systemic effects  
Value: 9,5 mg/kg
- End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Short-term exposure, Systemic effects  
Value: 25 mg/kg
- End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term exposure, Systemic effects  
Value: 5 mg/kg
- End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Short-term exposure, Systemic effects



## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

Value: 40,55 mg/m<sup>3</sup>  
End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure, Systemic effects  
Value: 8,11 mg/m<sup>3</sup>  
End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Short-term exposure, Systemic effects  
Value: 28,5 mg/kg  
End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term exposure, Systemic effects  
Value: 5,7 mg/kg  
End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 2,5 mg/kg  
End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term local effects  
Value: 0,623 mg/cm<sup>2</sup>  
End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 1,25 mg/kg  
End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term local effects  
Value: 0,311 mg/cm<sup>2</sup>  
End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 0,04 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

3-aminomethyl-3,5,5-trimethylcyclohexylamine : Fresh water  
Value: 0,06 mg/l  
Marine water  
Value: 0,006 mg/l  
Intermittent releases  
Value: 0,23 mg/l  
Fresh water sediment  
Value: 5,784 mg/kg  
Marine sediment  
Value: 0,578 mg/kg  
Sewage treatment plant  
Value: 3,18 mg/l  
Soil  
Value: 1,121 mg/kg  
benzyl alcohol : Fresh water  
Value: 1 mg/l  
Marine water  
Value: 0,1 mg/l  
Fresh water sediment

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)-

Value: 5,27 mg/kg  
Marine sediment  
Value: 0,527 mg/kg  
Soil  
Value: 0,456 mg/kg  
Sewage treatment plant  
Value: 39 mg/l  
Intermittent releases  
Value: 2,3 mg/l  
: Fresh water  
Value: 0,015 mg/l  
  
Marine water  
Value: 0,0143 mg/l  
Fresh water sediment  
Value: 0,132 mg/kg  
Marine sediment  
Value: 0,125 mg/kg  
Soil  
Value: 0,0176 mg/kg  
Intermittent releases  
Value: 0,15 mg/l  
Sewage treatment plant  
Value: 7,5 mg/l

### 8.2 Exposure controls

#### Engineering measures

Effective exhaust ventilation system  
effective ventilation in all processing areas

#### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166  
Do not wear contact lenses.  
Ensure that eyewash stations and safety showers are close to the workstation location.

#### Hand protection

Material : Protective gloves complying with EN 374.  
Remarks : Nitrile rubber

Skin and body protection : Protective suit  
Recommended preventive skin protection

Respiratory protection : Use respirator when performing operations involving potential exposure to vapour of the product.  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.  
Recommended Filter type:  
ABEK-filter  
Equipment should conform to EN 14387

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

||  
Protective measures : Avoid contact with skin.  
Wear suitable protective equipment.

### SECTION 9: Physical and chemical properties

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

Appearance : liquid

Colour : light yellow

Odour : ammoniacal

Odour Threshold : not determined

pH : 11, 1 %

Melting point/freezing point : Not applicable

Boiling point/boiling range : > 200 °C

Flash point : 150 °C

Evaporation rate : not determined

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : not determined

Density : 1 g/cm<sup>3</sup> (25 °C)

Bulk density : not determined

Solubility(ies)  
Solubility in other solvents : not determined

Partition coefficient: n-octanol/water : No data available

Ignition temperature : Not applicable

Auto-ignition temperature : Not applicable

Thermal decomposition : Method: No data available

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

Viscosity  
Viscosity, dynamic : 150 - 250 mPa.s (25 °C)

Viscosity, kinematic : not determined

Explosive properties : Not applicable

Oxidizing properties : Not applicable

### 9.2 Other information

Surface tension : not determined

Sublimation point : Not applicable

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with the following substances:  
Acids  
Strong oxidizing agents

### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : This product may release the following:  
Nitrogen oxides (NOx)  
Carbon monoxide  
Carbon dioxide (CO2)

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

**Product:**

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

- Acute oral toxicity : Acute toxicity estimate : 715,82 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : Remarks: No data available
- Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg  
Method: Calculation method
- Acute toxicity (other routes of administration) : Remarks: No data available

### Components:

#### **benzyl alcohol:**

- Acute inhalation toxicity : LC50 (Rat, male and female): > 4.178 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes

#### **Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-:**

- Acute oral toxicity : LD50 (Rat, male and female): 2.885,3 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes
- Acute dermal toxicity : LD50 (Rabbit, male and female): 2.979,7 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### **Skin corrosion/irritation**

#### Product:

Remarks: No data available

### Components:

#### **benzyl alcohol:**

- Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

#### **4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6:**

- Species: human skin  
Assessment: Causes burns.  
Method: OECD Test Guideline 431  
Result: Corrosive to skin  
GLP: yes

#### **Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-:**

- Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Corrosive

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

### Serious eye damage/eye irritation

**Product:**

Remarks: No data available

**Components:**

**benzyl alcohol:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: Eye irritation

GLP: yes

**Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-:**

Method: OECD Test Guideline 405

Result: Risk of serious damage to eyes.

### Respiratory or skin sensitisation

**Product:**

Remarks: No data available

### Germ cell mutagenicity

### Carcinogenicity

**Product:**

Remarks: No data available

### Reproductive toxicity

**Product:**

Effects on fertility : Remarks: No data available

Remarks: No data available

Effects on foetal development : Remarks: No data available  
Remarks: No data available

### STOT - single exposure

### STOT - repeated exposure

### Repeated dose toxicity

**Product:**

Remarks: No data available

### Aspiration toxicity

**Components:**

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

### 3-aminomethyl-3,5,5-trimethylcyclohexylamine:

No aspiration toxicity classification

#### Further information

##### Product:

Remarks: No data available

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

#### Components:

##### 3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 110 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: Directive 67/548/EEC, Annex V, C.1.  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 23 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : ErC50 (Scenedesmus capricornutum (fresh water algae)): > 50 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: Directive 67/548/EEC, Annex V, C.3.  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 3 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
GLP: yes

##### benzyl alcohol:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

### 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6:

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 0,64 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 0,96 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Short-term (acute) aquatic hazard) : 1

### Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 15 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 80 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,32 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available



## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

### Components:

#### **3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

Biodegradability : Test Type: aerobic  
Result: Not readily biodegradable.  
Method: Directive 67/548/EEC Annex V, C.4.A.  
GLP: yes

#### **4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with trimethylhexane-1,6:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F  
GLP: yes

#### **Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-:**

Biodegradability : Test Type: aerobic  
Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B  
GLP: yes

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### **3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

Partition coefficient: n- : log Pow: 0,99  
octanol/water Method: OECD Test Guideline 107  
GLP: yes

#### **Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-:**

Partition coefficient: n- : log Pow: 1,34 (25 °C)  
octanol/water Method: OECD Test Guideline 117  
GLP: yes

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

#### Product:

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

Additional ecological information : Remarks: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.  
Container hazardous when empty.  
Do not dispose of with domestic refuse.  
Do not mix waste streams during collection.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14: Transport information

#### 14.1 UN number

ADR/RID/ADN : UN 2735

IMDG : UN 2735

IATA : UN 2735

#### 14.2 UN proper shipping name

ADR/RID/ADN : AMINES, LIQUID, CORROSIVE, N.O.S.  
(Isophorone diamine)

IMDG : AMINES, LIQUID, CORROSIVE, N.O.S.  
(ISOPHORONEDIAMINE)

IATA : Amines, liquid, corrosive, n.o.s.  
(Isophorone diamine)

#### 14.3 Transport hazard class(es)

ADR/RID/ADN : 8

IMDG : 8

IATA : 8

#### 14.4 Packing group

ADR/RID/ADN  
Packing group : III  
Classification Code : C7  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : E  
Remarks :

IMDG  
Packing group : III

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

Labels : 8  
EmS Code : F-A, S-B  
Remarks : IMDG Code segregation group 18 - Alkalis

### IATA

Packing instruction (cargo aircraft) : 856  
Packing instruction (passenger aircraft) : 852  
Packing group : III  
Labels : 8

### 14.5 Environmental hazards

#### ADR/RID/ADN

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA

Environmentally hazardous : yes

### 14.6 Special precautions for user

Remarks : The transport of dangerous goods, including their loading and unloading, must be done by people who received the necessary training required by Modal Regulations.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

---

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL HAZARDS	200 t	500 t

Other regulations : For the product composition, we do not add any of the substances listed in the European Directive 2011/65/EU (RoHS 2, RoHS 3, and China RoHS).  
The product is thus in line with those directives.  
We do not add Conflict minerals to the product.

### 15.2 Chemical safety assessment

Not applicable

## SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

### Full text of H-Statements

H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H400	: Very toxic to aquatic life.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International

## GlassCast 10 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 03.12.2020

Print Date 03.12.2020

Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Training advice : Provide adequate information, instruction and training for operators.

### Classification of the mixture:

Acute Tox. 4	H302
Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 2	H411

### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.

GB / EN

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

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

#### 1.1 Product identifier

Trade name : GlassCast 50 Epoxy Hardener

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

Use of the Substance/Mixture : Epoxy Hardener

#### 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

#### 1.4 Emergency telephone number

+44 (0) 1782 454499  
(office hours only)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

Hazard statements : H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P303 + P361 + P533 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ 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/ doctor.

Hazardous components which must be listed on the label:

Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

3-aminomethyl-3,5,5-trimethylcyclohexylamine

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aliphatic Amine

#### Hazardous components

Chemical name	CAS-No. EC-No./List Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-	9046-10-0	Skin Corr.1C; H314 Eye Dam.1; H318	>= 50 - <= 100

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

aminomethylethoxy)-	01-2119557899-12	Aquatic Chronic3; H412	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1- chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5- trimethylcyclohexylamine	38294-64-3 01-2119965165-33- 0011	Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 20 - < 25
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38	Acute Tox.4; H302 Acute Tox.4; H332 Eye Irrit.2; H319	>= 10 - < 12,5
3-aminomethyl-3,5,5- trimethylcyclohexylamine	2855-13-2 220-666-8 01-2119514687-32	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 7 - < 10

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Show this safety data sheet to the doctor in attendance.  
Keep warm and in a quiet place.  
Take off all contaminated clothing immediately.
- If inhaled : Move to fresh air.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
Do NOT use solvents or thinners.  
If on clothes, remove clothes.  
Burns must be treated by a physician.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
If eye irritation persists, consult a specialist.  
If easy to do, remove contact lens, if worn.
- If swallowed : Do NOT induce vomiting.  
If a person vomits when lying on his back, place him in the recovery position.  
Call a physician immediately.  
Give small amounts of water to drink.



## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

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

Symptoms : Burn  
superficial burning sensation  
Redness  
Severe irritation

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

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry powder  
Water mist

Unsuitable extinguishing media : None known.

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

Specific hazards during firefighting : The pressure in sealed containers can increase under the influence of heat.  
Cool closed containers exposed to fire with water spray.  
Hazardous decomposition products formed under fire conditions.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Further information : In the event of fire and/or explosion do not breathe fumes.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Immediately evacuate personnel to safe areas.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

---

## SECTION 6: Accidental release measures

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

Personal precautions : Refer to protective measures listed in sections 7 and 8.  
Evacuate personnel to safe areas.  
Use personal protective equipment.  
Ensure adequate ventilation.

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

### 6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.  
Try to prevent the material from entering drains or water courses.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

For personal protection see section 8.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours or spray mist.  
Avoid inhalation, ingestion and contact with skin and eyes.  
Wear personal protective equipment.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.

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

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sunlight.

Further information on storage conditions : Protect from moisture.

Advice on common storage : Keep away from isocyanates.

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

Do not store near acids.  
Keep away from oxidizing agents.

Other data : Stable at normal ambient temperature and pressure.

### 7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- : End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 2,5 mg/kg  
End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term local effects  
Value: 0,623 mg/cm<sup>2</sup>  
End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 1,25 mg/kg  
End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term local effects  
Value: 0,311 mg/cm<sup>2</sup>  
End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 0,04 mg/kg

benzyl alcohol : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Short-term exposure, Systemic effects  
Value: 450 mg/m<sup>3</sup>  
End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure, Systemic effects  
Value: 90 mg/m<sup>3</sup>  
End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Short-term exposure, Systemic effects  
Value: 47 mg/kg  
End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term exposure, Systemic effects  
Value: 9,5 mg/kg

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Short-term exposure, Systemic effects  
Value: 25 mg/kg

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term exposure, Systemic effects  
Value: 5 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Short-term exposure, Systemic effects  
Value: 40,55 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure, Systemic effects  
Value: 8,11 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Short-term exposure, Systemic effects  
Value: 28,5 mg/kg

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term exposure, Systemic effects  
Value: 5,7 mg/kg

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5 : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 0,493 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 0,14 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 0,074 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 0,05 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Oral  
Potential health effects: Long-term systemic effects  
Value: 0,05 mg/m<sup>3</sup>

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-(2-aminomethylethyl)-.omega.-(2-aminomethylethoxy)- : Fresh water  
Value: 0,015 mg/l

Marine water  
Value: 0,0143 mg/l

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

	Fresh water sediment Value: 0,132 mg/kg
	Marine sediment Value: 0,125 mg/kg
	Soil Value: 0,0176 mg/kg
	Intermittent releases Value: 0,15 mg/l
	Sewage treatment plant Value: 7,5 mg/l
benzyl alcohol	: Fresh water Value: 1 mg/l
	Marine water Value: 0,1 mg/l
	Fresh water sediment Value: 5,27 mg/kg
	Marine sediment Value: 0,527 mg/kg
	Soil Value: 0,456 mg/kg
	Sewage treatment plant Value: 39 mg/l
	Intermittent releases Value: 2,3 mg/l
3-aminomethyl-3,5,5-trimethylcyclohexylamine	: Fresh water Value: 0,06 mg/l
	Marine water Value: 0,006 mg/l
	Intermittent releases Value: 0,23 mg/l
	Fresh water sediment Value: 5,784 mg/kg
	Marine sediment Value: 0,578 mg/kg
	Sewage treatment plant Value: 3,18 mg/l
	Soil Value: 1,121 mg/kg
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5	: Fresh water Value: 0,011 mg/l
	Marine water Value: 0,001 mg/l
	Sewage treatment plant Value: 10 mg/l
	Fresh water sediment Value: 4320 mg/kg
	Marine sediment Value: 432 mg/kg
	Soil Value: 864 mg/kg

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

### 8.2 Exposure controls

#### Engineering measures

Effective exhaust ventilation system  
effective ventilation in all processing areas

#### Personal protective equipment

- Eye protection : Safety glasses with side-shields conforming to EN166  
Do not wear contact lenses.  
Ensure that eyewash stations and safety showers are close to the workstation location.
- Hand protection  
Material : Protective gloves complying with EN 374.
- Skin and body protection : Protective suit
- Respiratory protection : Use respirator when performing operations involving potential exposure to vapour of the product.  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.  
Equipment should conform to EN 14387
- Protective measures : Avoid contact with skin.  
Wear suitable protective equipment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : light yellow
- Odour : ammoniacal
- Odour Threshold : not determined
- pH : 11, 1 %
- Melting point/freezing point : Not applicable
- Boiling point/boiling range : > 200 °C
- Flash point : 100 °C
- Evaporation rate : not determined
- Upper explosion limit : Not applicable

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: not determined
Density	: 1 g/cm <sup>3</sup> (25 °C)
Bulk density	: not determined
Solubility(ies) Solubility in other solvents	: not determined
Partition coefficient: n- octanol/water	: No data available
Ignition temperature	: Not applicable
Auto-ignition temperature	: Not applicable
Thermal decomposition	: Method: No data available
Viscosity Viscosity, dynamic	: 180 - 300 mPa.s (25 °C)
Viscosity, kinematic	: not determined
Explosive properties	: Not applicable
Oxidizing properties	: Not applicable

### 9.2 Other information

Surface tension	: not determined
Sublimation point	: Not applicable

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: Reacts with the following substances: Acids Strong oxidizing agents
---------------------	---

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : This product may release the following:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg  
Method: Calculation method

Acute toxicity (other routes of administration) : Remarks: No data available

##### Components:

##### **Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-:**

Acute oral toxicity : LD50 (Rat, male and female): 2.885,3 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): 2.979,7 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

##### **benzyl alcohol:**

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.178 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes



## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

### Skin corrosion/irritation

**Product:**

Remarks: No data available

**Components:**

**Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:**

Species: human skin

Assessment: Causes burns.

Method: OECD Test Guideline 431

Result: Causes burns.

GLP: yes

**benzyl alcohol:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

### Serious eye damage/eye irritation

**Product:**

Remarks: No data available

**Components:**

**Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-:**

Method: OECD Test Guideline 405

Result: Risk of serious damage to eyes.

**benzyl alcohol:**

Species: Rabbit

Method: OECD Test Guideline 405

Result: Eye irritation

GLP: yes

### Respiratory or skin sensitisation

**Product:**

Remarks: No data available

**Components:**

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:**

Assessment: May cause sensitisation by skin contact.

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

### Germ cell mutagenicity

#### Components:

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:**

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

### Carcinogenicity

#### Product:

Remarks: No data available

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available

Remarks: No data available

Effects on foetal development : Remarks: No data available  
Remarks: No data available

#### Components:

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:**

Effects on foetal development : Test Type: Pre-natal  
Species: Rat  
Strain: Sprague-Dawley  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level: 100 mg/kg body weight  
Teratogenicity: No observed adverse effect level: 250 mg/kg body weight  
Developmental Toxicity: No observed adverse effect level: 250 mg/kg body weight  
Embryo-foetal toxicity: No observed adverse effect level: 250 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

**STOT - single exposure**

**STOT - repeated exposure**

**Repeated dose toxicity**

#### Product:

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

Remarks: No data available

### Components:

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:**

Species: Rat, male and female

NOAEL: 10 mg/kg

LOAEL: 100 mg/kg

Application Route: Oral

Exposure time: 90 d

Method: OECD Test Guideline 408

GLP: yes

Species: Rat, male and female

NOAEL: 30 mg/kg

Application Route: Oral

Exposure time: 28 d

Method: OECD Test Guideline 407

GLP: yes

### **Aspiration toxicity**

### Components:

**3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

No aspiration toxicity classification

### **Further information**

### Product:

Remarks: No data available

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

#### Components:

**Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 15 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 80 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,32 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

### **4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:**

- Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 70,7 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 11,1 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): 79,4 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes
- Toxicity to bacteria : (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209  
GLP: yes

### **benzyl alcohol:**

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

### **3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

Toxicity to fish	: LC50 (Leuciscus idus (Golden orfe)): 110 mg/l Exposure time: 96 h Test Type: semi-static test Method: Directive 67/548/EEC, Annex V, C.1. GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 23 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	: ErC50 (Scenedesmus capricornutum (fresh water algae)): > 50 mg/l Exposure time: 72 h Test Type: static test Method: Directive 67/548/EEC, Annex V, C.3. GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 3 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test GLP: yes

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### Components:

##### **Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-:**

Biodegradability : Test Type: aerobic  
Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B  
GLP: yes

##### **4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not biodegradable  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

##### **3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

Biodegradability : Test Type: aerobic

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

Result: Not readily biodegradable.  
Method: Directive 67/548/EEC Annex V, C.4.A.  
GLP: yes

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-:**

Partition coefficient: n- : log Pow: 1,34 (25 °C)  
octanol/water : Method: OECD Test Guideline 117  
GLP: yes

##### **4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:**

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 5,13  
Method: estimated

Partition coefficient: n- : log Pow: 3,6 (25 °C)  
octanol/water : pH: 7  
Method: Regulation (EC) No. 440/2008, Annex, A.8  
GLP: no

##### **3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

Partition coefficient: n- : log Pow: 0,99  
octanol/water : Method: OECD Test Guideline 107  
GLP: yes

### 12.4 Mobility in soil

#### Components:

##### **4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5:**

Distribution among : log Koc: > 5,16  
environmental compartments : Method: OECD Test Guideline 121

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

#### Product:

Additional ecological : Remarks: An environmental hazard cannot be excluded in the

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

information

event of unprofessional handling or disposal.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : In accordance with local and national regulations.  
Container hazardous when empty.  
Do not dispose of with domestic refuse.  
Do not mix waste streams during collection.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14: Transport information

#### 14.1 UN number

- ADR/RID/ADN : UN 2735  
IMDG : UN 2735  
IATA : UN 2735

#### 14.2 UN proper shipping name

- ADR/RID/ADN : AMINES, LIQUID, CORROSIVE, N.O.S.  
(Polyoxypropylene Diamine)  
IMDG : AMINES, LIQUID, CORROSIVE, N.O.S.  
(Polyoxypropylene Diamine)  
IATA : Amines, liquid, corrosive, n.o.s.  
(Polyoxypropylene Diamine)

#### 14.3 Transport hazard class(es)

- ADR/RID/ADN : 8  
IMDG : 8  
IATA : 8

#### 14.4 Packing group

- ADR/RID/ADN  
Packing group : III  
Classification Code : C7  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : E
- IMDG  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B

## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

Remarks : IMDG Code segregation group 18 - Alkalis

### IATA

Packing instruction (cargo aircraft) : 856

Packing instruction (passenger aircraft) : 852

Packing group : III

Labels : 8

### 14.5 Environmental hazards

#### ADR/RID/ADN

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

#### IATA

Environmentally hazardous : no

### 14.6 Special precautions for user

Remarks : The transport of dangerous goods, including their loading and unloading, must be done by people who received the necessary training required by Modal Regulations.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.



## GlassCast 50 Epoxy Hardener

Version 7.0 SDB\_GB

Revision Date 18.11.2020

Print Date 18.11.2020

Not applicable

### 15.2 Chemical safety assessment

Not applicable

## SECTION 16: Other information

### Full text of H-Statements

H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation

### Further information

Training advice	: Provide adequate information, instruction and training for operators.
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.