

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010 Date of issue:24/07/2014 Revision date:05/11/2015 Supersedes:24/07/2014

Version: 1.1

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

1.1. Product identifier

Product form : Mixture

Product name : GlassCast Clear Epoxy Surface Resin

Type of product : Resin

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use

Industrial/Professional use spec : Intended for general public

Industrial

Use of the substance/mixture : Industrial laminating resin, casting, injection, winding, infusion, gluing, foaming, coatings and

sealants.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Easy Composites Ltd

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

Staffordshire, ST3 5XA. United Kingdom.

T +44 (0) 1782 454499 (08:00 - 17:30hrs, Mon-Fri) - F +44 (0)1782 596868

sales@easycomposites.co.uk - www.easycomposites.co.uk

1.4. Emergency telephone number

Emergency number : ORFILA (FRANCE): +33 (0)1 45 42 59 59 (24h/24, 7j/7)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh	51 Little France Crescent EH16 4SA Edinburgh	0844 892 0111	UK only, Monday to Friday, 08.00 to 18.00 hours
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1B H314
Sensitisation — Skin, Category 1 H317
Reproductive toxicity, Category 2 H361
Hazardous to the aquatic environment — Acute Hazard, Category 1

Hazardous to the aquatic environment — Chronic Hazard, H410

Category 1

Full text of H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :









GHS

GHS09

Signal word (CLP) : Danger

Hazardous ingredients : reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight

 \leq 700), Formaldehyde, polymer with (chloromethyl)oxirane and phenol, 4-nonylphenol,

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

branched, C13/C15-Alkylglycidylether

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H361 - Suspected of damaging fertility. Suspected of damaging the unborn child

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P102 - Keep out of reach of children

P270 - Do not eat, drink or smoke when using this product

P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician

P281 - Use personal protective equipment as required

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH-statements : EUH205 - Contains epoxy constituents. May produce an allergic reaction

Child-resistant fastening : Yes
Tactile warning : Yes

2.3. Other hazards

Other hazards not contributing to the

: None under normal conditions.

classification

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	(CAS No) 25068-38-6 (EC no) 500-033-5 (EC index no) 603-074-00-8 (REACH-no) 01-2119456619-26	40 - 80	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	(CAS No) 9003-36-5 (EC no) 500-006-8 (REACH-no) 01-2119454392-40	10 - 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
C13/C15-Alkylglycidylether	(CAS No) 68081-84-5 (EC no) 268-358-2 (REACH-no) 01-2119962192-39	1 - 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 Aquatic Chronic 3, H412
4-nonylphenol, branched substance listed as REACH Candidate (4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof])	(CAS No) 84852-15-3 (EC no) 284-325-5 (EC index no) 601-053-00-8 (REACH-no) 01-2119510715-45	1 - 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Specific concentration limits:

Name	Product identifier	Specific concentration limits
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	(CAS No) 25068-38-6 (EC no) 500-033-5	(C >= 5) Skin Irrit. 2, H315 (C >= 5) Eye Irrit. 2, H319
	(EC index no) 603-074-00-8 (REACH-no) 01-2119456619-26	

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

: Allow the victim to rest. Allow breathing of fresh air. Give oxygen or artificial respiration if necessary. If breathing stops, give artificial respiration. Call a POISON CENTER or

doctor/physician.

05/11/2015

EN (English)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

First-aid measures after skin contact Take off contaminated clothes, wash skin with plenty of water or have a shower (during minimum 15 minutes) and if necessary take medical advice. Be careful, the product may

remain trapped under clothing, footwear or a wrist-watch. Do not use solvents or thinners. If on skin and if skin irritation or rash occurs, seek medical advice and attention.

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

and easy to do. Continue rinsing. Consult an eye specialist immediately.

Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or First-aid measures after ingestion

doctor/physician.

Most important symptoms and effects, both acute and delayed

: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat Symptoms/injuries after inhalation

with constricting sensation of the larynx and difficulty in breathing.

Causes skin irritation. May cause moderate irritation,. This material or its emissions may induce Symptoms/injuries after skin contact

an allergic or sensitization reaction and thereby aggravate existing systemic disease.

Symptoms/injuries after eye contact Causes eye irritation. May cause moderate irritation, including burning sensation, tearing,

redness or swelling

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

For the Anti-poison Center indicate all the components including the non dangerous ones to obtain (when possible) a total of 100 %.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Carbon dioxide. Water spray. Dry powder. Alcohol resistant foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

: Heat may cause pressure rise with explosion of tanks/drums. Explosion hazard

Hazardous decomposition products in case of : Carbon dioxide. Carbon monoxide. Nitrogen oxides. Toxic fumes.

5.3. Advice for firefighters

Firefighting instructions : Evacuate the danger area. Exercise caution when fighting any chemical fire. Use water spray

or fog for cooling exposed containers. Toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Exercise caution when fighting any chemical fire.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Manipulations are to be done only by qualified and authorised persons. Wear recommended

personal protective equipment.

Emergency procedures : If a major spill occurs, all personnel should be immediately evacuated and the area ventilated.

6.1.2. For emergency responders

: Spill should be handled by trained cleaning personnel properly equipped with respiratory and Protective equipment

eye protection. Wear proper protective equipment.

Emergency procedures Stop release. Place in an appropriate container and dispose of the contaminated material at a

licensed site.

Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up Clean up any spills as soon as possible, using an absorbent material to collect it. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into

container for disposal.

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

Reference to other sections

Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Do

not handle until all safety precautions have been read and understood.

3/10

Hygiene measures Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

05/11/2015 EN (English) SDS Ref.: GlassCast Clear Epoxy Surface Resin

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store, if possible, in a cool, well ventilated place away from incompatible materials. Keep

container closed when not in use.

Incompatible products : Oxidizing agent. Strong bases. Strong acids.

Storage area : Store in a well-ventilated place. Special rules on packaging : Store in a closed container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure. Gas mask. Protective clothing. In case of splash hazard:

safety glasses. Gloves. Wash hands and other exposed areas with mild soap and water before

eating, drinking or smoking and when leaving work.

Hand protection : Nitrile-rubber protective gloves. Chemical resistant gloves (according to European standard NF

EN 374 or equivalent)

Eye protection : Chemical goggles or face shield
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection









Consumer exposure controls : Avoid contact during pregnancy/while nursing.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.

Colour : colourless to slightly yellow.

Odour : slight

Odour threshold No data available : No data available : No data available Relative evaporation rate (butylacetate=1) Melting point No data available Freezing point : No data available Boiling point : No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available Relative vapour density at 20 °C No data available

Relative density : 1,15
Density : 1,15

Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available

05/11/2015

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

: No data available Explosive limits

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

Chemical stability

Stable under use and storage conditions as recommended in section 7.

Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

Conditions to avoid 10.4.

No data available.

Incompatible materials

Strong acids. Oxidizing agent. Strong bases. Amines.

Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides. Toxic fumes.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

: Not classified Acute toxicity

4-nonylphenol, branched (84852-15-3)	
LD50 oral rat	1412 mg/kg
LD50 dermal rabbit	2031 mg/kg

C13/C15-Alkylglycidylether (68081-84-5)

> 5000 mg/kg LD50 oral rat

Skin corrosion/irritation : Causes severe skin burns and eye damage. Serious eye damage/irritation : Serious eye damage, category 1, implicit Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility. Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

· No data Ecology - general Ecology - air : No data. Ecology - water : No data.

4-nonylphenol, branched (84852-15-3)		
LC50 fish 1	0,05 mg/l	
EC50 Daphnia 1	0.085 mg/l	

12.2. Persistence and degradability

GlassCast Clear Epoxy Surface Resin	
Persistence and degradability	No data.
4-nonylphenol, branched (84852-15-3)	
Biodegradation	100 %

12.3 **Bioaccumulative potential**

GlassCast Clear Epoxy Surface Resin	
Bioaccumulative potential	No data.

05/11/2015

EN (English)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

4-nonylphenol, branched (84852-15-3)	
Log Pow	5,4
Log Kow	5,4

12.4. Mobility in soil

GlassCast Clear Epoxy Surface Resin	
Ecology - soil	No data.

12.5. Results of PBT and vPvB assessment

GlassCast Clear Epoxy Surface Resin

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component		
	Formaldehyde, polymer with (chloromethyl)oxirane and phenol (9003-36-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
	4-nonylphenol, branched (84852-15-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : No data.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not flush down sewers. Dispose of this material and its container at hazardous or special

waste collection point.

Waste disposal recommendations : Recycle or dispose of in compliance with current legislation.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

14.1.	UN nu	ımbei

 UN-No. (ADR)
 : 3082

 UN-No. (IMDG)
 : 3082

 UN-No. (IATA)
 : 3082

 UN-No. (ADN)
 : 3082

 UN-No. (RID)
 : 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.

Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport document description (ADR)

: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (E)

Transport document description (IMDG)

: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 9
Danger labels (ADR) : 9



IMDG

Transport hazard class(es) (IMDG) : 9
Danger labels (IMDG) : 9

05/11/2015

EN (English)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010



IATA

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9
Danger labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9
Danger labels (RID) : 9



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M6

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

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

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

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

(ADR)

Portable tank and bulk container special

provisions (ADR)

: TP1, TP29

Tank code (ADR) : LGBV

Talik code (ABIV)

05/11/2015 EN (English) SDS Ref.: GlassCast Clear Epoxy Surface Resin

7/10

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages : V12

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV13

. 90

: A

Hazard identification number (Kemler No.)

Orange plates

90 3082

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

- Transport by sea

Special provisions (IMDG) : 274, 335 Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P001, LP01 Special packing provisions (IMDG) : PP1 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP2, TP29 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-F

- Air transport

Stowage category (IMDG)

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

Special provisions (IATA) : A97, A158, A197

ERG code (IATA) : 9L

- Inland waterway transport

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 61

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 601

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

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

 Special packing provisions (RID)
 : PP1

 Mixed packing provisions (RID)
 : MP19

 Portable tank and bulk container instructions
 : T4

(RID)

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3

05/11/2015

EN (English)

: TP1, TP29

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Special provisions for carriage – Packages : W12

(RID)

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW31

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

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

IBC code : Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit: 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] (EC 284-325-5, CAS 84852-15-3)

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Not applicable

SECTION 16: Other information

Indication of changes: Revision - See : *.

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : Information in this safety data sheet is based on actual knowledge in our possession and our experience. This does not in any way excuse the user from knowing and applying all the

experience. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. It is the user's responsibility to take the mentioned

precautionary measures and to ensure that this information is complete and sufficient for the

use of this product.

Full text of H- and EUH-statements:

	···
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child
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

05/11/2015

EN (English)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

ELIHOOE	Contains epoxy constituents. May produce an allergic reaction
LUIIZUS	Contains epoxy constituents. May produce an allergic reaction

SDS EU (REACH Annex II)

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

05/11/2015 EN (English) SDS Ref.: GlassCast Clear Epoxy Surface Resin



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010 Date of issue:25/07/2014 Revision date:05/11/2015 Supersedes:25/07/2014

Version: 1.1

1/9

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

1.1. Product identifier

Product form : Mixture

Product name : GlassCast Epoxy Hardener
Type of product : Hardener (Crosslinker)

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use

Industrial/Professional use spec : Intended for general public

Industrial

Use of the substance/mixture : Laminating hardener, casting, injection, winding, infusion, gluing, foaming, coatings and

sealants.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Easy Composites Ltd

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

Staffordshire, ST3 5XA. United Kingdom.

T +44 (0) 1782 454499 (08:00 - 17:30hrs, Mon-Fri) - F +44 (0)1782 596868

sales@easycomposites.co.uk - www.easycomposites.co.uk

1.4. Emergency telephone number

Emergency number : +44 (0)1782 454499

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh	51 Little France Crescent EH16 4SA Edinburgh	0844 892 0111	UK only, Monday to Friday, 08.00 to 18.00 hours
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302
Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin corrosion/irritation, Category 1B H314
Sensitisation — Skin, Category 1 H317
Hazardous to the aquatic environment — Chronic Hazard, H412

Category 3

Full text of H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :





GHS05

Signal word (CLP) : Danger

Hazardous ingredients : Propylidynetrimethanol, propoxylated, reaction products with ammonia, 3-aminomethyl-3,5,5-

trimethylcyclohexylamine, Bisphenol A polymer with 5-amino-1.3.3-

trimethylcyclohexanemethanamine, benzyl alcohol

05/11/2015 EN (English) SDS Ref.: GlassCast Epoxy Hardener

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Hazard statements (CLP) : H302+H332 - Harmful if swallowed or if inhaled

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 (CLP) : P102 - Keep out of reach of children

P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P281 - Use personal protective equipment as required

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable

for breathing

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

Child-resistant fastening : Yes
Tactile warning : Yes

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
benzyl alcohol	(CAS No) 100-51-6 (EC no) 202-859-9 (EC index no) 603-057-00-5 (REACH-no) 01-2119492630-38	20 - 60	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
Propylidynetrimethanol, propoxylated, reaction products with ammonia	(CAS No) 39423-51-3 (EC no) 500-105-6 (REACH-no) 01- 2119556886-20	10 - 40	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Aquatic Chronic 2, H411
3-aminomethyl-3,5,5-trimethylcyclohexylamine	(CAS No) 2855-13-2 (EC no) 220-666-8 (EC index no) 612-067-00-9 (REACH-no) 01-2119514687-32	10 - 40	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Bisphenol A polymer with 5-amino-1.3.3-trimethylcyclohexanemethanamine	(CAS No) 38294-64-3 (EC no) 500-101-4	1 - 10	Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302

Full text of H-statements: see section 16

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Allow breathing of fresh air. Respiratory arrest: artificial respiration or oxygen. If unconscious place in recovery position and seek medical advice.

First-aid measures after skin contact

: Wash contaminated clothing before reuse. Take off contaminated clothes, wash skin with plenty of water or have a shower (during minimum 15 minutes) and if necessary take medical advice. If on skin and if skin irritation or rash occurs, seek medical advice and attention.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. Continue to rinse eye with clean water for 20-30 minutes, retracting eyelids often. Consult an eye specialist if necessary.

: Rinse mouth. Do not induce vomiting because of corrosive effects. Immediately call a POISON CENTER or doctor/physician.

05/11/2015

First-aid measures after ingestion

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EN (English)

SDS Ref.: GlassCast Epoxy Hardener

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

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

Symptoms/injuries after inhalation : Cough. May cause respiratory irritation. Severe inhalation hazard.

Symptoms/injuries after skin contact : May cause moderate irritation,.

Symptoms/injuries after eye contact : May cause moderate irritation, including burning sensation, tearing, redness or swelling. Risk of

damage to eyes.

Symptoms/injuries after ingestion : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

For the Anti-poison Center indicate all the components including the non dangerous ones to obtain (when possible) a total of 100 %.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Do not breathe fumes from fires or vapours from decomposition.

Hazardous decomposition products in case of

fire

: Carbon dioxide. Carbon monoxide. Nitrogen oxides.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate personnel to a safe area. Do not enter fire area without proper protective equipment,

including respiratory protection.

Firefighting instructions : Exercise caution when fighting any chemical fire. Unauthorized persons are not admitted.

Eliminate all ignition sources if safe to do so. Prevent fire-fighting water from entering

other exposed areas with mild soap and water before eating, drinking or smoking and when

environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear a self contained breathing apparatus. Special protective equipment for fire-fighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking. Spill should be handled by trained cleaning personnel properly

equipped with respiratory and eye protection.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Do not allow

to enter drains or water courses.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Avoid all unnecessary exposure. Do not handle until all safety precautions have been read and understood. Keep

containers closed.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash hands and

leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store, if possible, in a cool, well ventilated place away from

incompatible materials.

Incompatible products : Strong acids. Oxidizing agent. Halogenated hydrocarbons.

Incompatible materials : Heat sources

7.3. Specific end use(s)

No additional information available

05/11/2015 EN (English) SDS Ref.: GlassCast Epoxy Hardener 3/9

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Self-contained breathing apparatus. Gloves. Gas mask. Protective clothing. Protective goggles.

High gas/vapour concentration: gas mask with filter type K.

Respiratory protection : Wear respiratory protection. High gas/vapour concentration: gas mask with filter type K











: No data available

: No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Colour : Colourless. Odour : Amine-like. Odour threshold No data available pΗ No data available Relative evaporation rate (butylacetate=1) No data available Melting point : No data available Freezing point : No data available Boiling point No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature No data available Flammability (solid, gas) No data available

Relative density : 1

Density : 1 g/cm³

Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapour pressure

Relative vapour density at 20 °C

No additional information available

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Strong acids. Oxidizing agent. metals. halogenated hydrocarbons.

05/11/2015 EN (English) SDS Ref.: GlassCast Epoxy Hardener 4/9

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity : Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

ATE CLP (oral)	602,410 mg/kg bodyweight
ATE CLP (dust,mist)	4,412 mg/l/4h

, ,	, ,
3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	
LD50 oral rat	1030 mg/kg
benzyl alcohol (100-51-6)	
LD50 oral rat	1620 mg/kg
LC50 inhalation rat (mg/l)	> 4178 mg/m³

Skin corrosion/irritation : Causes severe skin burns and eye damage. Serious eye damage/irritation : Serious eye damage, category 1, implicit Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity Not classified : Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified exposure)

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. **Toxicity**

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	
LC50 fish 1	110 mg/l
EC50 Daphnia 1	23 mg/l
EC50 other aquatic organisms 1	37 mg/l
EC50 72h algae (1)	> 50 mg/l
benzyl alcohol (100-51-6)	
LC50 fish 1	460 mg/l
EC50 72h algae (1)	770 mg/l
NOEC chronic algae	310 mg/l

12.2. Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Results of PBT and vPvB assessment 12.5.

Component	
benzyl alcohol (100-51-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Waste treatment methods

No additional information available

SECTION 14: Transport information

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

05/11/2015 EN (English) SDS Ref.: GlassCast Epoxy Hardener 5/9

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

14.1. UN number		
UN-No. (ADR)	: 2735	
UN-No. (IMDG)	: 2735	
UN-No. (IATA)	: 2735	
UN-No. (ADN)	: 2735	
UN-No. (RID)	: 2735	

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AMINES, LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (IMDG) : AMINES, LIQUID, CORROSIVE, N.O.S.

Proper Shipping Name (IATA) : Amines, liquid, corrosive, n.o.s.

Proper Shipping Name (ADN) : AMINES, LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (RID) : AMINES, LIQUID, CORROSIVE, N.O.S.

Transport document description (ADR) : UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, III, (E)
Transport document description (IMDG) : UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8

05/11/2015

EN (English)

SDS Ref.: GlassCast Epoxy Hardener

6/9

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C7
Special provisions (ADR) : 274
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1

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

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T7

(ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 3

Special provisions for carriage - Packages

(ADR)

Hazard identification number (Kemler No.) : 80

Orange plates

80 2735

: TP1, TP28

: V12

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

- Transport by sea

Stowage category (IMDG)

Special provisions (IMDG) : 223, 274 Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : P001, LP01 Packing instructions (IMDG) : IBC03 IBC packing instructions (IMDG) Tank instructions (IMDG) : T7 Tank special provisions (IMDG) : TP1, TP28 EmS-No. (Fire) : F-A : S-B EmS-No. (Spillage)

Stowage and segregation (IMDG) : 'Separated from' acids.

Properties and observations (IMDG) : Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in

water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous

7/9

membranes.

: A

05/11/2015 EN (English) SDS Ref.: GlassCast Epoxy Hardener

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y841 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 852 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 856 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A3 ERG code (IATA) : 8L

- Inland waterway transport

Classification code (ADN) : C7

Special provisions (ADN) : 274

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : C7
Special provisions (RID) : 274
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

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

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions : T7

(RID)

Portable tank and bulk container special

provisions (RID)

: TP1, TP28

Tank codes for RID tanks (RID) : L4BN

Transport category (RID) : 3

Special provisions for carriage – Packages : W12

(RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 80

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

Revision - See : *.

05/11/2015 EN (English) SDS Ref.: GlassCast Epoxy Hardener 8/9

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

Information in this safety data sheet is based on actual knowledge in our possession and our experience. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. It is the user's responsibility to take the mentioned precautionary measures and to ensure that this information is complete and sufficient for the use of this product.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, Category 1
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
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS EU (REACH Annex II)

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

05/11/2015 EN (English) SDS Ref.: GlassCast Epoxy Hardener 9/9