



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

EVO-STIK EPOXY RAPID - RESIN
Supersedes Date: 30-Dec-2020

Revision date 02-Mar-2022
Revision Number 1.03

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

1.1. Product identifier

Product Name EVO-STIK EPOXY RAPID - RESIN
Pure substance/mixture Mixture

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

Recommended use Resin.
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Limited
Common Rd
ST16 3EH
Stafford UK
Tel: +44 (1785) 27 26 25
Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom +44 (1785) 272650
Ireland Bostik: +353 (1) 8624900 (Monday- Friday 9am-5pm)
Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1A - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol , bis-[4-(2,3-epoxipropoxy)phenyl]propane



Signal word
Warning

Hazard statements

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.

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H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

EU Specific Hazard Statements

EUH205 - Contains epoxy constituents. May produce an allergic reaction

Precautionary Statements - EU (§28, 1272/2008)

P102 - Keep out of reach of children
P261 - Avoid breathing vapours/spray
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
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 an approved waste disposal plant

Additional information

Please also refer to the SDS for the other component(s) of the kit. This product is part of a kit.

2.3. Other hazards

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Toxic to aquatic life.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
bis-[4-(2,3-epoxipropoxy)phenyl]propane	216-823-5	1675-54-3	80 - 100	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5%	01-2119456619-26-xxxx
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	500-006-8	9003-36-5	5 - <10	Skin Irrit. 2 (H315) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)	-	01-2119454392-40-XXXX
Glycidoxypropyltrimethoxysilane	219-784-2	2530-83-8	1- <2.5	Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	-	01-2119513212-58-XXXX

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

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	EC No	CAS No	SVHC candidates
bis-[4-(2,3-epoxipropoxy)phenyl]propane	216-823-5	1675-54-3	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	500-006-8	9003-36-5	
Glycidoxypolytrimethoxysilane	219-784-2	2530-83-8	

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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Unsuitable extinguishing media	No information available.
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5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the	Product is or contains a sensitiser. May cause sensitisation by skin contact.
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chemical

Hazardous combustion products Carbon oxides. Silicon dioxide.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. See section 8 for more information.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Please also refer to the SDS for the other component(s) of the kit. This product is part of a kit.

General hygiene considerations Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

Recommended storage temperature Keep at temperatures between 5 and 35 °C.

7.3. Specific end use(s)

Specific use(s)
Resin.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	12.25 mg/m ³	
worker Short term Systemic health effects	Inhalation	12.25 mg/m ³	
worker Long term Systemic health effects	Dermal	8.33 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	8.33 mg/kg bw/d	

Glycidoxypropyltrimethoxysilane (2530-83-8)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	70.5 mg/m ³	
worker Long term Systemic health effects	Dermal	10 mg/kg bw/d	

Derived No Effect Level (DNEL)			
bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Dermal	3.571 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	3.571 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	0.75 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	0.75 mg/kg bw/d	

Glycidoxypropyltrimethoxysilane (2530-83-8)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer	Inhalation	17 mg/m ³	

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Long term Systemic health effects			
Consumer Long term Systemic health effects	Dermal	5 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	5 mg/kg bw/d	

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)	
bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.006 mg/l
Marine water	0.001 mg/l
Sewage treatment plant	10 mg/l
Freshwater sediment	0.996 mg/kg dry weight
Marine sediment	0.1 mg/kg dry weight
Soil	0.196 mg/kg dry weight

Glycidoxypropyltrimethoxysilane (2530-83-8)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.45 mg/l
Marine water	0.045 mg/l
Freshwater sediment	1.6 mg/kg dry weight
Sewage treatment plant	8.2 mg/l
Soil	0.063 mg/kg dry weight
Marine sediment	0.16 mg/kg dry weight

8.2. Exposure controls

Engineering controls

Please refer also to Safety Data Sheet of Part B.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

Hand protection

Wear protective gloves: Nitrile rubber, Butyl rubber. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

Ensure adequate ventilation, especially in confined areas.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	No information available
Colour	Light yellow
Odour	Slight
Odour threshold	No information available

Property	Values	Remarks • Method
pH	No data available	Not applicable
pH (as aqueous solution)	No data available	

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Melting point / freezing point	No data available	Not applicable
Initial boiling point and boiling range	> 200 °C	
Flash point	150 °C	
Evaporation rate	No data available	
Flammability	Not applicable for liquids	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Relative vapour density	No data available	
Relative density	No data available	
Water solubility	No data available	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	8000 - 12000 mPa s	@ 25 °C
Explosive properties	No data available	
Oxidising properties	No data available	

9.2. Other information

Solid content (%)	No information available
VOC Content (%)	
Density	1.15 g/cm ³

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No information available.
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10.2. Chemical stability

Stability	Stable under normal conditions.
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Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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10.4. Conditions to avoid

Conditions to avoid	None known based on information supplied.
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10.5. Incompatible materials

Incompatible materials	Strong acids. Strong bases. Strong oxidising agents.
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10.6. Hazardous decomposition products

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Hazardous decomposition products None under normal use conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation Based on available data, the classification criteria are not met.

Eye contact Causes serious eye irritation.

Skin contact Causes skin irritation. May cause sensitisation by skin contact.

Ingestion Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 28,626.60 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
bis-[4-(2,3-epoxypropoxy)phenyl]propane 1675-54-3	=11300 µL/kg (Rattus)	LD50 >2000 mg/Kg (Rattus)	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol 9003-36-5	LD50 > 5 g/kg (Rattus) (OECD 401)	LD50 > 2000 mg/kg (Rattus)(OECD 402)	
Glycidoxypropyltrimethoxysilane 2530-83-8	=8025 mg/kg (Rattus)	= 4250 mg/kg (Oryctolagus cuniculus)	>5.3 mg/L (Rattus) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Component Information

Glycidoxypropyltrimethoxysilane (2530-83-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye	Rabbit	Eye			Eye Damage

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Irritation/Corrosion					
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Respiratory or skin sensitisation May cause an allergic skin reaction.

Component Information

Glycidoxypropyltrimethoxysilane (2530-83-8)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	No sensitisation responses were observed

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties

11.2.2. Other information

Other adverse effects No information available.

Note: PC-ADH-8 Multi-component adhesives and sealants
Please also refer to the SDS for the other component(s) of the kit
This product is part of a kit

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
bis-[4-(2,3-epoxipropoxy)phenyl]propane 1675-54-3	EC50 (72h) = 9.4 mg/L (Scenedesmus)	1.5 mg/l 96Hr (Oncorhynchus mykiss)	-	LD50 (48h) =2.7 mg/L (Daphnia magna)		

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	capricornutum) EPA-660/3-75-0 09	(OECD 203)		(OECD 202)		
Glycidoxypolytrimeth oxysilane 2530-83-8	EC50 (96h): 350 mg/l Pseudokirchneri ella subcapitata	LC50 (96h) = 55 mg/L (Cyprinus carpio) OECD 203	-	EC50 (48h) =473 mg/L Daphnia magna		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
bis-[4-(2,3-epoxipropoxy)phenyl]propane 1675-54-3	3.78	-

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
bis-[4-(2,3-epoxipropoxy)phenyl]propane 1675-54-3	The substance is not PBT / vPvB
Glycidoxypolytrimethoxysilane 2530-83-8	The substance is not PBT / vPvB

12.6. Other adverse effects

Other adverse effects No information available.

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Group II Chemical	-

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of contents/ container to an approved landfill.

Contaminated packaging Do not reuse empty containers.

European Waste Catalogue 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

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Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Note: The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

Land transport (ADR/RID)

14.1 UN number or ID number UN3082
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s
(bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)
14.3 Transport hazard class(es) 9
Labels 9
14.4 Packing group III
Description UN3082, Environmentally hazardous substances, liquid, n.o.s
(bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III, (-)
14.5 Environmental hazards Yes
14.6 Special Provisions 274, 335, 601, 375
Classification code M6
Tunnel restriction code (-)
Limited quantity (LQ) 5 L
ADR Hazard Id (Kemmler Number) 90

IMDG

14.1 UN number or ID number UN3082
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s
(bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)
14.3 Transport hazard class(es) 9
14.4 Packing group III
Description UN3082, Environmentally hazardous substances, liquid, n.o.s
(bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III, Marine Pollutant
14.5 Marine pollutant P
14.6 Special Provisions 274, 335, 969
Limited Quantity (LQ) 5 L
EmS-No F-A, S-F
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number UN3082
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s
(bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)
14.3 Transport hazard class(es) 9
14.4 Packing group III
Description UN3082, Environmentally hazardous substances, liquid, n.o.s
(bis-[4-(2,3-epoxipropoxy)phenyl]propane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III
14.5 Environmental hazards Yes
14.6 Special Provisions A97, A158, A197
Limited quantity (LQ) 30 kg G
ERG Code 9L

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Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No
bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	9003-36-5
Glycidoxypropyltrimethoxysilane	2530-83-8

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No	Restricted substance per REACH Annex XVII
bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	9003-36-5	
Glycidoxypropyltrimethoxysilane	2530-83-8	

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

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Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
RID	Regulations concerning the International Transport of Dangerous Goods by Rail

Key literature references and sources for data

No information available

Prepared By Product Safety & Regulatory Affairs

Revision date 02-Mar-2022

Indication of changes

Revision note SDS sections updated: 2, 8, 11.

Training Advice When working with hazardous materials, regular training of operators is required by law

Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



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This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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Revision Number 1.05

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

1.1. Product identifier

Product Name EVO-STIK EPOXY RAPID - HARDENER
Pure substance/mixture Mixture

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

Recommended use Adhesive. Curing chemical.
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Limited
Common Rd
ST16 3EH
Stafford UK
Tel: +44 (1785) 27 26 25
Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom +44 (1785) 272650
Ireland Bostik: +353 (1) 8624900 (Monday- Friday 9am-5pm)
Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1B - (H317)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Contains Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)1,3-propanediol (4:1), 2-hydroxy-3-mercaptap, 1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl-



Signal word
Warning

Hazard statements

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.

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H319 - Causes serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves and eye/face protection
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 an approved waste disposal plant

Additional information

Please also refer to the SDS for the other component(s) of the kit. This product is part of a kit.

2.3. Other hazards

No information available.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)1,3-propanediol (4:1), 2-hydroxy-3-mercaptop	-	72244-98-5	80 - 100	Skin Sens. 1B (H317) Aquatic Chronic 3 (H412)	-	Exempt
1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl-	234-148-4	10563-29-8	1 - <3	Skin Corr. 1A (H314) Eye Dam. 1 (H318) Skin Sens. 1B (H317) Acute Tox. 4 (H302)	-	01-2119970376-29-XXXX

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

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Product is or contains a sensitiser. May cause sensitisation by skin contact.
Hazardous combustion products	Carbon oxides. Nitrogen oxides (NOx). Sulphur oxides.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. See section 8 for more information.
Other information	Refer to protective measures listed in Sections 7 and 8.

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For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Please also refer to the SDS for the other component(s) of the kit. This product is part of a kit.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

7.3. Specific end use(s)

Specific use(s)
Curing chemical. Adhesive.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl- (10563-29-8)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	3.7 mg/m ³	

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worker Short term Systemic health effects	Inhalation	7.5 mg/m ³	
worker Long term Local health effects	Inhalation	3.7 mg/m ³	
worker Short term Local health effects	Inhalation	7.5 mg/m ³	
worker Long term Systemic health effects	Dermal	0.67 mg/kg bw/d	

Derived No Effect Level (DNEL)			
1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl- (10563-29-8)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	0.65 mg/m ³	
Consumer Long term Local health effects	Inhalation	0.65 mg/m ³	
Consumer Long term Local health effects	Oral	0.2 mg/kg bw/d	

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)	
1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl- (10563-29-8)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	9.2 µg/l
Marine water	0.92 µg/l
Sewage treatment plant	18.1 mg/l
Freshwater sediment	0.034 mg/kg dry weight
Marine sediment	0.00336 mg/kg dry weight
Soil	0.00132 mg/kg dry weight

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas. Please refer also to Safety Data Sheet of Part A.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

Hand protection Wear suitable gloves: Nitrile rubber, Butyl rubber. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Skin and body protection Suitable protective clothing.

Respiratory protection Ensure adequate ventilation, especially in confined areas.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	No information available	
Colour	Colourless to yellow	
Odour	Ammonia	
Odour threshold	No information available	
Property	Values	Remarks • Method
pH	No data available	
pH (as aqueous solution)	= 11	solution (1 %)
Melting point / freezing point	No data available	
Initial boiling point and boiling range	> 150 °C	
Flash point	100 °C	
Evaporation rate	No data available	
Flammability	Not applicable for liquids	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Relative vapour density	No data available	
Relative density	No data available	
Water solubility	No data available	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	10000 - 20000 mPa s	@ 25 °C
Explosive properties	No data available	
Oxidising properties	No data available	

9.2. Other information

Solid content (%)	No information available
VOC Content (%)	
Density	1.14 g/cm ³

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No information available.
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10.2. Chemical stability

Stability	Stable under normal conditions.
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Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None under normal processing.
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10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of toxic/corrosive gases and vapours. Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation	Based on available data, the classification criteria are not met. Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Causes serious eye irritation.
Skin contact	May cause sensitisation by skin contact. Causes skin irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	16,722.40 mg/kg
ATEmix (dermal)	36,789.30 mg/kg

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitisation	May cause sensitisation by skin contact.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.

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Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

Note: PC-ADH-8 Multi-component adhesives and sealants
Please also refer to the SDS for the other component(s) of the kit
This product is part of a kit

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl-10563-29-8	-	LC50: >100mg/L (96h, Danio rerio)	-	-		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

12.4. Mobility in soil

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Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
1,3-Propanediamine, N'-(3-aminopropyl)-N,N-dimethyl- 10563-29-8	The substance is not PBT / vPvB

12.6. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of contents/ container to an approved landfill.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances.

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number Not regulated

14.2 Proper Shipping Name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazards Not applicable

14.6 Special Provisions None

IMDG

14.1 UN number or ID number Not regulated

14.2 Proper Shipping Name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Marine pollutant NP

14.6 Special Provisions None

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number Not regulated

14.2 Proper Shipping Name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not regulated

14.5 Environmental hazards Not applicable

14.6 Special Provisions None

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Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H412 - Harmful to aquatic life with long lasting effects

Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)

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Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
RID	Regulations concerning the International Transport of Dangerous Goods by Rail

Key literature references and sources for data

No information available

Prepared By Product Safety & Regulatory Affairs

Revision date 02-Mar-2022

Indication of changes

Revision note SDS sections updated: 2, 3, 11, 12.

Training Advice When working with hazardous materials, regular training of operators is required by law

Further information No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet