This document contains SDS for both the Resin and its hardner. For hardener SDS, scroll to the 12th page of the file.

SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH)

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)



LB2 Epoxy Laminating Bio Resin

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier Product name : LB2 Epoxy Laminating Bio Resin Product code : LB2-A EPOXY RESIN UFI :WHY5-Q9G9-900J-GXHD 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use : resin Uses advised against : data not available 1.3. Details of the supplier of the safety data sheet Company : Easy Composites Ltd Unit 39 Park Hall Business Village, Longton, Stoke-on-Trent, ST3 5XA Telephone 01782454499 E-mail address sales@easycomposites.com 1.4. Emergency telephone number : . 01782 454499 (office hours only)

Other emergency numbers

Health and Safety Executive (HSE) Chemicals Regulation Directorate - Telephone: +44 151 951 3317

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



Signal Word : DANGER Product identifiers : EC 216-823-5 EC 219-371-7 Additional labeling : EUH205 Hazard statements :

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE BUTANEDIOLDIGLYCIDYL ETHER

Contains epoxy constituents. May produce an allergic reaction.

LB2 Epoxy Laminating Bio Re	sin
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	- Prevention :
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/
Precautionary statements	- Response :
P302 + P352	IF ON SKIN: Wash with plenty of water/
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006. The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH)

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 1675-54-3	GHS07, GHS09		80 <= x% < 90
EC: 216-823-5	Wng		
REACH: 01-2119456619-26-XXXX	Skin Irrit. 2, H315		
	Skin Sens. 1, H317		
2,2'-[(1-METHYLETHYLIDENE)BIS(4	Eye Irrit. 2, H319		
,1-PHENYLENEOXYMETHYLENE)]BISOX	Aquatic Chronic 2, H411		
IRANE			
CAS: 2425-79-8	GHS07, GHS05		20 <= x% < 23
EC: 219-371-7	Dgr		
REACH: 01-2119494060-45-XXXX	Acute Tox. 4, H312		
	Skin Irrit. 2, H315		
BUTANEDIOLDIGLYCIDYL ETHER	Skin Sens. 1A, H317		
	Eye Dam. 1, H318		
	Acute Tox. 4, H332		

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 1675-54-3	Skin Irrit. 2: H315 >=5%	dermal: ATE = 2000 mg/kg BW
EC: 216-823-5	Eye Irrit. 2: H319 C>= 5%	oral: ATE = 11400 mg/kg BW
REACH: 01-2119456619-26-XXXX		
2,2'-[(1-METHYLETHYLIDENE)BIS(4		
,1-PHENYLENEOXYMETHYLENE)]BISOX		
IRANE		
CAS: 2425-79-8		inhalation: ATE = 10 mg/l 4h
EC: 219-371-7		(vapours)
REACH: 01-2119494060-45-XXXX		dermal: ATE = 1130 mg/kg BW
		oral: ATE = 1134 mg/kg BW
BUTANEDIOLDIGLYCIDYL ETHER		

Information on ingredients :

(Full text of H-phrases: see section 16)

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

If inhaled, move the patient to fresh air and keep warm and rest.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

Flush with large amounts of water. Remove contact lenses if the victim is. Continue to rinse. Seek medical attention if symptoms persist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label.

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

No data available.

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

Information for the doctor :

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to remain under medical supervision for 48 hours.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

- In the event of a fire, use :
- sprayed water or water mist
- dry chemical agents
- carbon dioxide (CO2)

- foam

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO2)

5.3. Advice for firefighters

Firefighters should wear suitable protective clothing and a respirator mask with self- full operated in positive pressure mode. Wear conform with the European standard EN 469.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid eye contact with this mixture at all times.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Store in original container protected from direct sunlight in a dry, cool and well ventilated area away from heat sources. Keep container tightly closed in a dry place.

Store away from heat and cold.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

Scope advised: Stratification

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Final use: Exposure method: Potential health effects: DNEL :

Final use:

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL : Workers. Dermal contact. Short term systemic effects. 8.3 mg/kg body weight/day

Dermal contact. Long term systemic effects. 8.3 mg/kg body weight/day

Inhalation. Short term systemic effects. 12.3 mg of substance/m3

Inhalation. Long term systemic effects. 12.3 mg of substance/m3

Consumers.

Ingestion. Short term systemic effects. 0.75 mg/kg body weight/day

Ingestion. Long term systemic effects. 0.75 mg/kg body weight/day

	Exposure method:	Dermal contact.
	Potential health effects:	Short term systemic effects.
	DNEL :	3.6 mg/kg body weight/day
	Exposure method:	Dermal contact.
	Potential health effects:	Long term systemic effects.
	DNEL :	3.6 mg/kg body weight/day
	Exposure method:	Inhalation.
	Potential health effects:	Short term systemic effects.
	DNEL :	0.75 mg of substance/m3
	Exposure method:	Inhalation.
	Potential health effects:	Long term systemic effects.
	DNEL :	0.75 mg of substance/m3
_		
Р	redicted no effect concentration (PNEC):	
	2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOX	,,
	Environmental compartment:	Soil.
	PNEC :	0.065 mg/kg
	Environmental compartment:	Fresh water.
	PNEC :	
	PNEC :	6 µg/l
	Environmental compartment:	Sea water.
	PNEC :	1 μg/l
		- F-3/-
	Environmental compartment:	Intermittent waste water.
	PNEC :	0.013 mg/l
	Environmental compartment:	Fresh water sediment.
	PNEC :	0.341 mg/kg

Environmental compartment: PNEC :

Environmental compartment: PNEC :

Waste water treatment plant. 10 mg/l

Marine sediment.

0.034 mg/kg

8.2. Exposure controls

Use only with adequate ventilation or provided with ventilation at the source.

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- Butyl Rubber (Isobutylene-isoprene copolymer)

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Physical state

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

Attention! If the protection group is insufficient.

Mask with filter type A, B, E, K, P

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	
Physical state :	Viscous liquid.
Colour	
Color :	colorless to light yellow
Odour	
Odour threshold :	Not stated.
Melting point	
Melting point/melting range :	Not relevant.
Freezing point	
Freezing point / Freezing range :	Not stated.
Boiling point or initial boiling point and boiling range	
Boiling point/boiling range :	Not relevant.
Flammability	l.
Flammability (solid, gas) :	Not stated.
Lower and upper explosion limit	
Explosive properties, lower explosivity limit (%) :	Not stated.
Explosive properties, upper explosivity limit (%):	Not stated.
Flash point	
Flash Point Interval :	FP > 100°C.
Auto-ignition temperature	
Self-ignition temperature :	Not relevant.
Decomposition temperature	
Decomposition point/decomposition range :	Not relevant.
рН	Г
pH (aqueous solution) :	Not stated.
pH :	Not relevant.
Kinematic viscosity	
Viscosity :	1 770 ± 370 mPa.s @ 25°C
Solubility	
Water solubility :	Insoluble.
Fat solubility :	Not stated.
Partition coefficient n-octanol/water (log value)	
Partition coefficient: n-octanol/water :	Not stated.
Vapour pressure	
Vapour pressure (50°C) :	Not relevant.
Density and/or relative density	
Density :	1.16 ± 0.02 @ 20°C

SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH) Version 3.4 (18-01-2023) - Page 7/11 LB2 Epoxy Laminating Bio Resin Relative vapour density Vapour density : Not stated. 9.2. Other information Index of refraction : Index of refraction : 1.5560 ± 0.002 @ 25 °C 9.2.1. Information with regard to physical hazard classes No data available.

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)

SECTION 11 : TOXICOLOGICAL INFORMATION

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

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

May cause an allergic reaction by skin contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and a respiratory tract sensitiser as well as an irritant.

Constituents with a low molecular weight irritate the eyes, mucous membranes and the skin

Repeated contact with the skin may cause irritation and hypersensitisation, possibly in combination with other epoxide compounds.

11.1.1. Substances

Acute toxicity :

BUTANEDIOLDIGLYCIDYL ETHER (CAS: 2425-79-8) Oral route :

Oral route :	LD50 = 1134 mg/kg
	Species : Rat
Dermal route :	LD50 = 1130 mg/kg
	Species : Rabbit
Inhalation route (Vapours) :	LC50 = 10 mg/l
	Duration of exposure : 4 h
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENE	OXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)
Oral route :	LD50 = 11400 mg/kg
	Species : Rat
Dermal route :	LD50 = 2000 mg/kg
	Species : Rat
Oral route :	LD50 = 11400 mg/kg Species : Rat LD50 = 2000 mg/kg

Skin corrosion/skin irritation :

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Version 3.4 (18-01-2023) - Page 8/11

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

11.1.2. Mixture

Respiratory or skin sensitisation :

Contains epoxy compounds. May cause an allergic reaction.

11.2. Information on other hazards

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 1675-54-3 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12 : ECOLOGICAL INFORMATION

SECTION 12 : ECOLOGICAL INFORMATION	
Toxic to aquatic life with long lasting effects.	
The product must not be allowed to run into drains or wa	terways.
12.1. Toxicity	
12.1.1. Substances	
BUTANEDIOLDIGLYCIDYL ETHER (CAS: 2425-79-8)	
Fish toxicity :	LC50 = 13 mg/l
	Species : Oryzias latipes
	Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 223 mg/l
	Species : Daphnia magna
	Duration of exposure : 48 h
Aquatic plant toxicity :	ECr50 > 93 mg/l
	Species : Others
	Duration of exposure : 72 h
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEO	XYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)
Fish toxicity :	LC50 = 1.3 mg/l
	Duration of exposure : 96 h
	OECD Guideline 203 (Fish, Acute Toxicity Test)
Crustacean toxicity :	EC50 = 2.1 mg/l
	Species : Daphnia sp.
	Duration of exposure : 48 h
	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
	NOEC = 0.3 mg/l
	Species : Daphnia magna
	Duration of exposure : 21 days
	OECD Guideline 211 (Daphnia magna Reproduction Test)
Algae toxicity :	ECr50 > 11 mg/l
	Duration of exposure : 72 h
12.1.2. Mixtures	
No aquatic toxicity data available for the mixture.	
12.2. Persistence and degradability	
12.2.1. Substances	
BUTANEDIOLDIGLYCIDYL ETHER (CAS: 2425-79-8)	
Biodegradability :	no degradability data is available, the substance is considered as not degrading quickly.
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEO	XYMETHYI ENE)IBISOXIRANE (CAS: 1675-54-3)
Biodegradability :	no degradability data is available, the substance is considered as not
2.020g.0200mg .	degrading quickly.

12.3. Bioaccumulative potential

12.3.1. Substances

Epoxy Laminating Bio Resin	
BUTANEDIOLDIGLYCIDYL ETHER (CAS: :	2/25-79-8)
Octanol/water partition coefficient :	log Koe = 0.01
Bioaccumulation :	BCF = 3.162
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHE	ENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)
Octanol/water partition coefficient :	log Koe <= 3.78
Bioaccumulation :	BCF < 100.
12.4. Mobility in soil	
No data available.	
2.5. Results of PBT and vPvB assessment	
No data available.	
2.6. Endocrine disrupting properties	
No data available.	
2.7. Other adverse effects	
Z.7. Other adverse ellects	
No data available.	
No data available.	cation of hazards for water (WGK, AwSV Annex I, KBws) :
No data available.	cation of hazards for water (WGK, AwSV Annex I, KBws) :
No data available. German regulations concerning the classific	cation of hazards for water (WGK, AwSV Annex I, KBws):
No data available. German regulations concerning the classific WGK 2 : Hazardous for water.	
No data available. German regulations concerning the classific WGK 2 : Hazardous for water. CTION 13 : DISPOSAL CONSIDERATIO	
No data available. German regulations concerning the classific WGK 2 : Hazardous for water. CTION 13 : DISPOSAL CONSIDERATIO Proper waste management of the mixture an	DNS
No data available. German regulations concerning the classific WGK 2 : Hazardous for water. CTION 13 : DISPOSAL CONSIDERATIO Proper waste management of the mixture an	DNS
No data available. German regulations concerning the classifie WGK 2 : Hazardous for water. CTION 13 : DISPOSAL CONSIDERATIO Proper waste management of the mixture an I3.1. Waste treatment methods	DNS
No data available. German regulations concerning the classifie WGK 2 : Hazardous for water. CTION 13 : DISPOSAL CONSIDERATIO Proper waste management of the mixture and 13.1. Waste treatment methods Do not pour into drains or waterways. Waste :	DNS
No data available. German regulations concerning the classific WGK 2 : Hazardous for water. CTION 13 : DISPOSAL CONSIDERATION Proper waste management of the mixture and 13.1. Waste treatment methods Do not pour into drains or waterways. Waste : Waste management is carried out without end soil, plants or animals.	DNS d/or its container must be determined in accordance with Directive 2008/98/EC.
No data available. German regulations concerning the classific WGK 2 : Hazardous for water. CTION 13 : DISPOSAL CONSIDERATIO Proper waste management of the mixture an 13.1. Waste treatment methods Do not pour into drains or waterways. Waste : Waste management is carried out without end soil, plants or animals. Recycle or dispose of waste in compliance without end	DNS d/or its container must be determined in accordance with Directive 2008/98/EC. dangering human health, without harming the environment and, in particular without risk to wate
No data available. German regulations concerning the classific WGK 2 : Hazardous for water. CTION 13 : DISPOSAL CONSIDERATIO Proper waste management of the mixture an 13.1. Waste treatment methods Do not pour into drains or waterways. Waste : Waste management is carried out without end soil, plants or animals. Recycle or dispose of waste in compliance without end	DNS d/or its container must be determined in accordance with Directive 2008/98/EC. dangering human health, without harming the environment and, in particular without risk to wate ith current legislation, preferably via a certified collector or company.
No data available. German regulations concerning the classified WGK 2 : Hazardous for water. CTION 13 : DISPOSAL CONSIDERATION Proper waste management of the mixture and 13.1. Waste treatment methods Do not pour into drains or waterways. Naste : Waste management is carried out without end soil, plants or animals. Recycle or dispose of waste in compliance with Do not contaminate the ground or water with	d/or its container must be determined in accordance with Directive 2008/98/EC. dangering human health, without harming the environment and, in particular without risk to wate ith current legislation, preferably via a certified collector or company. waste, do not dispose of waste into the environment.
No data available. German regulations concerning the classified WGK 2 : Hazardous for water. CTION 13 : DISPOSAL CONSIDERATION Proper waste management of the mixture and 13.1. Waste treatment methods Do not pour into drains or waterways. Waste : Waste management is carried out without end soil, plants or animals. Recycle or dispose of waste in compliance with Do not contaminate the ground or water with Soiled packaging : Empty container completely. Keep label(s) or Give to a certified disposal contractor.	d/or its container must be determined in accordance with Directive 2008/98/EC. dangering human health, without harming the environment and, in particular without risk to wate ith current legislation, preferably via a certified collector or company. waste, do not dispose of waste into the environment.
No data available. German regulations concerning the classified WGK 2 : Hazardous for water. CTION 13 : DISPOSAL CONSIDERATION Proper waste management of the mixture and 13.1. Waste treatment methods Do not pour into drains or waterways. Naste : Waste management is carried out without end soil, plants or animals. Recycle or dispose of waste in compliance with Do not contaminate the ground or water with Soiled packaging : Empty container completely. Keep label(s) or	d/or its container must be determined in accordance with Directive 2008/98/EC. dangering human health, without harming the environment and, in particular without risk to wate ith current legislation, preferably via a certified collector or company. waste, do not dispose of waste into the environment.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021 - IMDG 2020 [40-20] - ICAO/IATA 2022 [63]).

14.1. UN number or ID number

3082

14.2. UN proper shipping name

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

 $(2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bis oxirane, \ but an ediold ig lycidyl \ ether)$

14.3. Transport hazard class(es)

- Classification :

9

14.4. Packing group

Ш

14.5. Environmental hazards

- Environmentally hazardous material :



14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335	E1	3	-
							375 601			
*Not	subject to this	s regulation if	Q <= 5 / 5 kg	(ADR 3.3.1 -	DS 375)					
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage	Segregati	
								Handling	on	
	9	-	III	5 L	F-A. S-F	274 335	E1	Category	-	
						969		A		
*Not	subject to this	s regulation if	Q <= 5 / 5 kg	(IMDG 3.3.1 ·	- 2.10.2.7)					
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	9	-	III	964	450 L	964	450 L	A97 A158	E1	
								A197 A215		
	9	-	III	Y964	30 kg G	-	-	A97 A158	E1	
								A197 A215		

*Not subject to this regulation if Q <= 5 I / 5 kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane)

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

- Classification and labelling information included in section 2:

- The following regulations have been used:
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/1480 (ATP 13)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2019/521 (ATP 12)

- Container information:

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

- Particular provisions :
- No data available.
- German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) : WGK 2 : Hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.

Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

 $\mathsf{LC50}$: The concentration of a test substance resulting in 50% lethality in a given period.

 $\mathsf{EC50}$: The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

UFI : Unique formulation identifier.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS05 : Corrosion

GHS07 : Exclamation mark

GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)



LB2 Epoxy Laminating Bio Hardener

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name : LB2 Epoxy Laminating Bio Hardener
Product code : LB2-B
HARDENER
UFI :8386-A9GY-X002-N2SU

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use : Hardener

Uses advised against : data not available

1.3. Details of the supplier of the safety data sheet

Company :	Easy Composites Ltd
	Unit 39 Park Hall Business Village, Longton, Stoke-on-Trent, ST3 5XA
Telephone	01782454499
E-mail address	sales@easycomposites.com
1.4. Emergency telephone number : .	01782 454499 (office hours only)

Other emergency numbers

Health and Safety Executive (HSE) Chemicals Regulation Directorate - Telephone: +44 151 951 3317

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Acute oral toxicity, Category 4 (Acute Tox. 4, H302).

Skin corrosion, Category 1B (Skin Corr. 1B, H314).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



 Signal Word :

 DANGER

 Product identifiers :

 EC 268-626-9
 POLYETHYLENEPOLYAMINES

 EC 219-941-5
 1,3-CYCLOHEXANEDIMETHANAMINE

 EC 500-105-6
 PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA

 Hazard statements :

SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH)

L	B2 Epoxy Laminating Bio Harde	ner
	H302	Harmful if swallowed.
	H314	Causes severe skin burns and eye damage.
	H317	May cause an allergic skin reaction.
	H410	Very toxic to aquatic life with long lasting effects.
	Precautionary statements - 0	Seneral :
	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	Precautionary statements - F	revention :
	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/
	Precautionary statements - F	Response :
	P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
		[or 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.
	P310	Immediately call a POISON CENTER/doctor/
	P391	Collect spillage.
	Precautionary statements - S	itorage :
	P405	Store locked up.
	Precautionary statements - [Disposal :
	P501	Dispose of contents/container to hazardous waste.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006. The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	Classification (EC) 1272/2008	Note	%
CAS: 68131-73-7	GHS07, GHS05, GHS09		50 <= x % < 100
EC: 268-626-9	Dgr		
REACH: 01-2119485823-28-XXXX	Acute Tox. 4, H302		
	Acute Tox. 4, H312		
POLYETHYLENEPOLYAMINES	Skin Corr. 1B, H314		
	Skin Sens. 1, H317		
	Eye Dam. 1, H318		
	Aquatic Chronic 1, H410		
	M Chronic = 1		
CAS: 9046-10-0	GHS05		25 <= x % < 50
EC: 618-561-0	Dgr		
REACH: 01-2119557899-12-XXXX	Skin Corr. 1C, H314		
	Eye Dam. 1, H318		
REACTION PRODUCTS OF DI-, TRI	Aquatic Chronic 3, H412		
AND TETRA-PROPOXYLATED			
PROPANE-1.2-DIOL WITH AMMONIA			
CAS: 2579-20-6	GHS07, GHS05		2.5 <= x % < 10
EC: 219-941-5	Dgr		
REACH: 01-2119543741-41-XXXX	Acute Tox. 4, H302		
	Acute Tox. 4, H312		
1,3-CYCLOHEXANEDIMETHANAMINE	Skin Corr. 1A, H314		
	Eye Dam. 1, H318		
	Aquatic Chronic 3, H412		
CAS: 39423-51-3	GHS07, GHS05, GHS09		2.5 <= x % < 10
EC: 500-105-6	Dgr		

ETY DATA SHEET (REGULATION (EC) Epoxy Laminating Bio Hardener	n° 1907/2006 - REACH)	Version 1.1	(04-01-2024) - Page 3/
REACH: 01-2119556886-20-XXXX PROPYLIDYNETRIMETHANOL,	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314		
PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA	Eye Dam. 1, H318 Aquatic Chronic 2, H411		
CAS: 100-51-6	GHS07	[1]	2.5 <= x % < 10
EC: 202-859-9	Wng		
REACH: 01-2119492630-38-XXXX	Acute Tox. 4, H302 Eye Irrit. 2, H319		
BENZYL ALCOHOL	Acute Tox. 4, H332		
CAS: 770-35-4	GHS05		1 <= x % < 2.5
EC: 212-222-7	Dgr		
REACH: 01-2119486566-23-XXXX	Eye Dam. 1, H318		
1-PHENOXYPROPAN-2-OL			
CAS: 75-75-2	GHS07, GHS05	[1]	1 <= x % < 2.5
EC: 200-898-6	Dgr		
REACH: 01-2119491166-34-XXXX	Met. Corr. 1, H290		
	Acute Tox. 4, H302		
METHANESULPHONIC ACID	Acute Tox. 4, H312		
	Skin Corr. 1B, H314		
	Eye Dam. 1, H318		
	STOT SE 3, H335		

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 68131-73-7		dermal: ATE = 1465.4 mg/kg BW
EC: 268-626-9		oral: ATE = 1716.2 mg/kg BW
REACH: 01-2119485823-28-XXXX		
POLYETHYLENEPOLYAMINES		
CAS: 9046-10-0		dermal: ATE = 2979.7 mg/kg BW
EC: 618-561-0		oral: ATE = 2885.3 mg/kg BW
REACH: 01-2119557899-12-XXXX		
REACTION PRODUCTS OF DI-, TRI		
AND TETRA-PROPOXYLATED		
PROPANE-1.2-DIOL WITH AMMONIA		
CAS: 2579-20-6		dermal: ATE = 1700 mg/kg BW
EC: 219-941-5		oral: ATE = 880 mg/kg BW
REACH: 01-2119543741-41-XXXX		
1,3-CYCLOHEXANEDIMETHANAMINE		
CAS: 39423-51-3		oral: ATE = 550 mg/kg BW
EC: 500-105-6		
REACH: 01-2119556886-20-XXXX		
PROPYLIDYNETRIMETHANOL,		
PROPOXYLATED, REACTION PRODUCTS		
WITH AMMONIA		
CAS: 100-51-6		dermal: ATE = 2000 mg/kg BW
EC: 202-859-9		oral: ATE = 1230 mg/kg BW
REACH: 01-2119492630-38-XXXX		
BENZYL ALCOHOL		
CAS: 75-75-2		oral: ATE = 649 mg/kg BW
EC: 200-898-6		
REACH: 01-2119491166-34-XXXX		
METHANESULPHONIC ACID		

Information on ingredients :

SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH)

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

If inhaled, move the patient to fresh air and keep warm and rest.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

Flush with large amounts of water. Remove contact lenses if the victim is. Continue to rinse. Seek medical attention if symptoms persist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water, administer activated medical charcoal and consult a doctor.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

Information for the doctor :

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to remain under medical supervision for 48 hours.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

- In the event of a fire, use :
- sprayed water or water mist
- foam
- powder

Unsuitable methods of extinction

- In the event of a fire, do not use :
- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- nitrogen oxide (NO)
- nitrogen dioxide (NO2)

5.3. Advice for firefighters

Firefighters should wear suitable protective clothing and a respirator mask with self- full operated in positive pressure mode. Wear conform with the European standard EN 469.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Neutralise with an acidic decontaminant.

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available

Storage

Keep out of reach of children.

Keep away from food and drink, including those for animals.

Store in original container protected from direct sunlight in a dry, cool and well ventilated area away from heat sources.

Keep container tightly closed in a dry place.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

Scope advised: Stratification

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

CAS	VME :	VME :	Excess	Notes	
100-51-6		5 ppm		2 (I)	
		22 mg/m3			
75-75-2		0.7 mg/m3		1(I)	

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

METHANESULPHONIC ACID (CAS: 75-75-2)

Final use: Exc

Workers.

Exposure method:	Dermal conta
Potential health effects:	Long term sy
DNEL :	19.44 mg/kg

act. systemic effects. g body weight/day

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Final use: Exposure method: Potential health effects: DNEL :

1-PHENOXYPROPAN-2-OL (CAS: 770-35-4) **Final use:** Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

BENZYL ALCOHOL (CAS: 100-51-6) Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: Inhalation. Long term systemic effects. 6.76 mg of substance/m3

Inhalation. Long term local effects. 0.7 mg of substance/m3

Consumers.

Ingestion. Long term systemic effects. 8.33 mg/kg body weight/day

Dermal contact. Long term systemic effects. 8.33 mg/kg body weight/day

Inhalation. Long term systemic effects. 1.44 mg of substance/m3

Inhalation. Long term local effects. 0.42 mg of substance/m3

Workers.

Dermal contact. Long term systemic effects. 42 mg/kg body weight/day

Inhalation. Long term systemic effects. 25.7 mg of substance/m3

Consumers.

Ingestion. Long term systemic effects. 3.65 mg/kg body weight/day

Dermal contact. Long term systemic effects. 21 mg/kg body weight/day

Inhalation. Long term systemic effects. 12.7 mg of substance/m3

Workers.

Dermal contact. Short term systemic effects. 40 mg/kg body weight/day

Dermal contact. Long term systemic effects. 8 mg/kg body weight/day

Inhalation. Short term systemic effects. 110 mg of substance/m3

Inhalation. Long term systemic effects.

DNEL :

Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL:

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Final use: Exposure method: Potential health effects: DNEL :

1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)

Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Final use: Exposure method: 22 mg of substance/m3

Consumers.

Ingestion. Long term systemic effects. 4 mg/kg body weight/day

Ingestion. Short term systemic effects. 20 mg/kg body weight/day

Dermal contact. Long term systemic effects. 4 mg/kg body weight/day

Dermal contact. Short term systemic effects. 20 mg/kg body weight/day

Inhalation. Long term systemic effects. 5.4 mg of substance/m3

Inhalation. Short term systemic effects. 27 mg of substance/m3

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Workers. Dermal contact. Long term systemic effects. 4 mg/kg body weight/day

Inhalation. Long term systemic effects. 4.9 mg of substance/m3

Consumers.

Ingestion. Long term systemic effects. 0.5 mg/kg body weight/day

Workers. Dermal contact. Long term systemic effects. 0.1 mg/kg body weight/day

Inhalation. Long term local effects. 0.00947 mg of substance/m3

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0) Workers. Dermal contact. Long term systemic effects.

2.5 mg/kg body weight/day

Dermal contact. Long term local effects. 0.623 mg of substance/cm2

Consumers. Ingestion.

Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7) **Final use:** Exposure method: Potential health effects: DNEL :

Final use: Exposure method: Potential health effects: DNEL :

Predicted no effect concentration (PNEC):

Long term systemic effects. 0.04 mg/kg body weight/day

Dermal contact. Long term systemic effects. 1.25 mg/kg body weight/day

Dermal contact. Long term local effects. 0.311 mg of substance/cm2

Workers.

Dermal contact. Long term systemic effects. 0.91 mg/kg body weight/day

Dermal contact. Long term local effects. 0.44 mg of substance/cm2

Inhalation. Short term systemic effects. 8550 mg of substance/m3

Inhalation. Long term systemic effects. 1.59 mg of substance/m3

Consumers.

Ingestion. Short term systemic effects. 32 mg/kg body weight/day

Ingestion. Long term systemic effects. 0.65 mg/kg body weight/day

Dermal contact. Short term systemic effects. 13 mg/kg body weight/day

Dermal contact. Short term local effects. 1.59 mg of substance/cm2

Dermal contact. Long term systemic effects. 0.4 mg/kg body weight/day

Dermal contact. Long term local effects. 0.68 mg of substance/cm2

Inhalation. Short term systemic effects. 2542 mg of substance/m3

Inhalation. Long term systemic effects. 0.46 mg of substance/m3

ETY DATA SHEET (REGULATION (EC) n° 1 poxy Laminating Bio Hardener		Version 1.1 (04-01-2024) - Page
METHANESULPHONIC ACID (CAS: 75-75-2)		
Environmental compartment:	Soil.	
PNEC :	0.00183 mg/kg	
Environmental compartment:	Fresh water.	
PNEC :	0.012 mg/l	
	See water	
Environmental compartment: PNEC :	Sea water. 0.0012 mg/l	
	0.00. <u> </u>	
Environmental compartment:	Intermittent waste water.	
PNEC :	0.12 mg/l	
Environmental compartment:	Fresh water sediment.	
PNEC :	0.0251 mg/kg	
Environmental compartment:	Waste water treatment plant.	
PNEC :	100 mg/l	
	-	
1-PHENOXYPROPAN-2-OL (CAS: 770-35-4)	Soil.	
Environmental compartment: PNEC :	0.02 mg/kg	
FNEG.	0.02 mg/kg	
Environmental compartment:	Fresh water.	
PNEC :	0.1 mg/l	
Environmental compartment:	Sea water.	
PNEC :	0.01 mg/l	
Environmental compartment:	Intermittent waste water.	
PNEC :	1 mg/l	
Environmental compartment:	Fresh water sediment.	
PNEC :	0.38 mg/kg	
Environmental compartment:	Marine sediment.	
PNEC :	0.038 mg/kg	
Environmental compartment: PNEC :	Waste water treatment plant. 10 mg/l	
FNEC .	10 mg/	
BENZYL ALCOHOL (CAS: 100-51-6)		
Environmental compartment:	Soil.	
PNEC :	0.456 mg/kg	
Environmental compartment:	Fresh water.	
PNEC :	1 mg/l	
Environmental compartment:	Sea water.	
PNEC :	0.1 mg/l	
Environmental compartment:	Intermittent waste water.	
PNEC :	2.3 mg/l	
Environmental compartment:	Fresh water sediment.	
PNEC :	5.27 mg/kg	
Environmental compartment:	Marine sediment.	
PNEC :	0.527 mg/kg	
Environmental compartment:	Waste water treatment plant.	

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3)

Environmental compartment:Fresh vPNEC :0.004 nEnvironmental compartment:NeminationPNEC :0.0044Environmental compartment:IntermitPNEC :0.0224Environmental compartment:Fresh vPNEC :0.0224Environmental compartment:MarinePNEC :0.00224Environmental compartment:Waste vPNEC :0.00224Environmental compartment:Waste vPNEC :10 mg/l1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)Environmental compartment:Soil.PNEC :0.024 nEnvironmental compartment:Soil.PNEC :0.024 nEnvironmental compartment:Soil.PNEC :0.033 nEnvironmental compartment:Sea waPNEC :0.003 nEnvironmental compartment:Fresh vPNEC :0.022 nEnvironmental compartment:MarinePNEC :0.022 nEnvironmental compartment:MarinePNEC :0.022 nEnvironmental compartment:Soil.PNEC :0.0176Environmental compartment:Soil.PNEC :0.0176Environmental compartment:Soil.PNEC :0.0176Environmental compartment:Sea waPNEC :0.0176Environmental compartment:Sea waPNEC :0.0176Environmental compartment:Sea waPNEC :0.0176 <th>ater. g/l er. mg/l ent waste water. g/l ater sediment. mg/kg sediment. mg/kg vater treatment plant.</th>	ater. g/l er. mg/l ent waste water. g/l ater sediment. mg/kg sediment. mg/kg vater treatment plant.
PNEC :0.002 mEnvironmental compartment:Fresh vPNEC :0.004 mEnvironmental compartment:Sea waPNEC :0.004 mEnvironmental compartment:IntermitPNEC :0.024 mEnvironmental compartment:Fresh vPNEC :0.0224Environmental compartment:Fresh vPNEC :0.0224Environmental compartment:WasterPNEC :0.0024 mI,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)Environmental compartment:Soil.PNEC :0.024 mEnvironmental compartment:Soil.PNEC :0.033 mEnvironmental compartment:Soil.PNEC :0.033 mEnvironmental compartment:Fresh vPNEC :0.218 mEnvironmental compartment:MarinePNEC :0.228 mEnvironmental compartment:MarinePNEC :0.218 mEnvironmental compartment:VasterPNEC :0.027 mEnvironmental compartment:VasterPNEC :0.0176Environmental compartment:Soil.PNEC :0.0176Environmental compartment:Soil.PNEC :0.0176Environmental compartment:Soil.PNEC :0.0176Environmental compartment:Soil.PNEC :0.0176Environmental compartment:Soil.PNEC :0.0176Environmental compartment:Soil.<	ater. g/l er. mg/l ent waste water. g/l ater sediment. mg/kg sediment. mg/kg vater treatment plant.
Environmental compartment: Fresh v PNEC : 0.004 n Environmental compartment: Sea wa PNEC : 0.0044 Environmental compartment: Intermit PNEC : 0.0244 Environmental compartment: Fresh v PNEC : 0.0224 Environmental compartment: Waster PNEC : 0.00224 Environmental compartment: Waster PNEC : 0.0024 Environmental compartment: Soil. PNEC : 0.0024 n Environmental compartment: Soil. PNEC : 0.024 n Environmental compartment: Soil. PNEC : 0.024 n Environmental compartment: Fresh v PNEC : 0.024 n Environmental compartment: Fresh v PNEC : 0.033 n Environmental compartment: Fresh v PNEC : 0.033 n Environmental compartment: Fresh v PNEC : 0.033 n Environmental compartment: Fresh v PNEC : 0.013 n Environmental compartment: Sea wa PNEC : 0.023 n Environmental compartment: Fresh v PNEC : 0.013 n Environmental compartment: Fresh v PNEC : 0.013 n Environmental compartment: Fresh v PNEC : 0.013 n Environmental compartment: Fresh v PNEC : 0.015 n Environmental compartment: Soil. PNEC : 0.0176 Environmental compartment: Fresh v PNEC : 0.0178	ater. g/l er. mg/l ent waste water. g/l ater sediment. mg/kg sediment. mg/kg vater treatment plant.
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PNEC : 0.15 mg Environmental compartment: Fresh v	-
Environmental compartment: Fresh v	ent waste water.
1	Λ
1	
0.102	ater sediment
	ater sediment. a/ka
Environmental compartment: Marine	
PNEC : 0.125 n	
For the second state of th	g/kg sediment.
-	g/kg sediment. g/kg
PNEC : 7.5 mg/	g/kg g/kg vater treatment plant.
POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)	g/kg g/kg vater treatment plant.

۷.		
	PNEC :	10 mg/kg
	Environmental compartment: PNEC :	Fresh water. 1.6 μg/l
	Environmental compartment: PNEC :	Sea water. 1.6 μg/l
	Environmental compartment: PNEC :	Fresh water sediment. 0.14 mg/kg
	Environmental compartment: PNEC :	Marine sediment. 0.14 mg/kg
	Environmental compartment: PNEC :	Waste water treatment plant. 3.19 mg/l

8.2. Exposure controls

Use only with adequate ventilation or provided with ventilation at the source.

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- Butyl Rubber (Isobutylene-isoprene copolymer)

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact. Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

Mask with filter type A, B, E, K, P

Attention! If the protection group is insufficient.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties	
Physical state	
Physical state :	Fluid liquid.
Colour	
Color :	yellow
Odour	Jonoth
Odour threshold :	Not stated.
Melting point	
Melting point/melting range :	Not relevant.
Freezing point	Not relevant.
Freezing point / Freezing range :	Not stated.
Boiling point or initial boiling point and boiling range	Not stated.
Boiling point/boiling range :	Not relevant.
	Not relevant.
Flammability	
Flammability (solid, gas) :	Not stated.
Lower and upper explosion limit	Not stated
Explosive properties, lower explosivity limit (%) :	Not stated.
Explosive properties, upper explosivity limit (%):	Not stated.
Flash point	
Flash Point Interval :	FP > 100°C.
Auto-ignition temperature	
Self-ignition temperature :	Not relevant.
Decomposition temperature	
Decomposition point/decomposition range :	Not relevant.
рН	
pH (aqueous solution) :	Not stated.
pH :	Not stated.
	Slightly basic.
Kinematic viscosity	
Viscosity :	95 ± 20 mPa.s @ 25 °C
Solubility	
Water solubility :	Soluble.
Fat solubility :	Not stated.
Partition coefficient n-octanol/water (log value)	
Partition coefficient: n-octanol/water :	Not stated.
Vapour pressure	
Vapour pressure (50°C) :	Not relevant.
Density and/or relative density	
Density :	1.00 ± 0.02 @ 20 °C
Relative vapour density	
Vapour density :	Not stated.
Particle characteristics	
The mixture does not contain nanoforms.	
9.2. Other information	
	1.4912 ± 0.002 @ 25 °C
Index of refraction :	Method of determining the refractive index :

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

- Avoid :
- contact with air
- humidity

10.5. Incompatible materials

Keep away from :

- strong oxidising agents

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- nitrogen oxide (NO)
- nitrogen dioxide (NO2)

SECTION 11 : TOXICOLOGICAL INFORMATION

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

Harmful if swallowed.

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between three minutes and one hour.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

May cause an allergic reaction by skin contact.

11.1.1. Substances

Acute toxicity :

METHANESULPHONIC ACID (CAS: 75-75-2) Oral route :

Oral route :	LD50 = 649 mg/kg bodyweight/day Species : Rat OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	LD50 > 1000 mg/kg bodyweight/day Species : Rabbit OECD Guideline 402 (Acute Dermal Toxicity)
1-PHENOXYPROPAN-2-OL (CAS: 770-35-4) Oral route :	LD50 > 2000 mg/kg bodyweight/day Species : Rat OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	LD50 > 2000 mg/kg bodyweight/day Species : Rat OECD Guideline 402 (Acute Dermal Toxicity)
Inhalation route (Dusts/mist) :	LC50 > 5 mg/l Species : Rat OECD Guideline 403 (Acute Inhalation Toxicity)
BENZYL ALCOHOL (CAS: 100-51-6)	
Oral route :	LD50 = 1230 mg/kg bodyweight/day Species : Rat
Dermal route :	LD50 = 2000 mg/kg bodyweight/day Species : Rat
Inhalation route (Dusts/mist) :	LC50 > 4.178 mg/l Species : Rat OECD Guideline 403 (Acute Inhalation Toxicity) Duration of exposure : 4 h

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, F Oral route :	REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3) LD50 = 550 mg/kg bodyweight/day Species : Rat OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
Dermal route :	LD50 > 1000 mg/kg bodyweight/day Species : Rat OECD Guideline 402 (Acute Dermal Toxicity)
1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-2 Oral route :	20-6) LD50 = 880 mg/kg bodyweight/day Species : Rat
Dermal route :	LD50 = 1700 mg/kg bodyweight/day Species : Rabbit
REACTION PRODUCTS OF DI-, TRI AND TETRA-PF Oral route :	ROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0) LD50 = 2885.3 mg/kg bodyweight/day Species : Rat
Dermal route :	LD50 = 2979.7 mg/kg bodyweight/day Species : Rabbit
POLYETHYLENEPOLYAMINES (CAS: 68131-73-7) Oral route :	LD50 = 1716.2 mg/kg bodyweight/day Species : Rat OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	LD50 = 1465.4 mg/kg bodyweight/day Species : Rabbit OECD Guideline 402 (Acute Dermal Toxicity)
Skin corrosion/skin irritation : BENZYL ALCOHOL (CAS: 100-51-6)	
	Species : Rabbit OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
PROPYLIDYNETRIMETHANOL, PROPOXYLATED, F	REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3) Species : Rabbit OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
	Species : Rabbit OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
REACTION PRODUCTS OF DI-, TRI AND TETRA-PF Corrosivity :	ROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0) Causes severe skin burns. Species : Rabbit OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Respiratory or skin sensitisation :	
BENZYL ALCOHOL (CAS: 100-51-6) Guinea Pig Maximisation Test (GMPT) :	Non-sensitiser. Species : Guinea pig OECD Guideline 406 (Skin Sensitisation)
	REACTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3) Non-sensitiser.
Guinea Pig Maximisation Test (GMPT) :	Species : Guinea pig OECD Guideline 406 (Skin Sensitisation)

SAFETY DATA SHEET (REGULATION (EC) n° 190 LB2 Epoxy Laminating Bio Hardener	Version 1.1 (04-01-2024) - Pa	
Ames test (in vitro) :	Negative.	
BENZYL ALCOHOL (CAS: 100-51-6)		
Mutagenesis (in vivo) :	Negative.	
	Species : Mouse	
	OECD Guideline 474 (Mammalian E	Erythrocyte Micronucleus Test)
Mutagenesis (in vitro) :	Negative.	
	Species : Bacteria	
	OECD Guideline 471 (Bacterial Rev	verse Mutation Assay)
PROPYLIDYNETRIMETHANOL, PROPOXYLATED,		NIA (CAS: 39423-51-3)
Mutagenesis (in vivo) :	Negative.	
	Species : Mouse OECD Guideline 474 (Mammalian E	Erythrocyte Micronucleus Test)
	OECD Guideline 471 (Bacterial Rev	erse Mutation Assav)
		.,
Ames test (in vitro) :	Negative. With or without metabolic activation.	
METHANESULPHONIC ACID (CAS: 75-75-2)	No mutagenic effect.	
Mutagenesis (in vivo) :	Negative.	
	Species : Mouse	
	OECD Guideline 474 (Mammalian E	Erythrocyte Micronucleus Test)
Mutagenesis (in vitro) :	Negative.	
	Species : Mammalian Cell Line	
	OECD Guideline 471 (Bacterial Rev	verse Mutation Assay)
Ames test (in vitro) :	Negative.	
REACTION PRODUCTS OF DI-, TRI AND TETRA-F	PROPOXYLATED PROPANE-1.2-DIOL No mutagenic effect.	WITH AMMONIA (CAS: 9046-10-0)
POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)		
	No mutagenic effect.	
Mutagenesis (in vivo) :	Negative.	
	OECD Guideline 474 (Mammalian E	Erythrocyte Micronucleus Test)
Carcinogenicity :		
BENZYL ALCOHOL (CAS: 100-51-6)		
Carcinogenicity Test :	Negative.	
	No carcinogenic effect.	
	Species : Mouse	
	OECD Guideline 453 (Combined Cl	nronic Toxicity / Carcinogenicity Studies)
Reproductive toxicant :		
METHANESULPHONIC ACID (CAS: 75-75-2)		
No toxic effect for reproduction		
Study on fertility :	Species : Rat OECD Guideline 414 (Prenatal Dev	elopmental Toxicity Study)
BENZYL ALCOHOL (CAS: 100-51-6)		
No toxic effect for reproduction		
PROPYLIDYNETRIMETHANOL, PROPOXYLATED,	REACTION PRODUCTS WITH AMMO	NIA (CAS: 39423-51-3)
No toxic effect for reproduction		
Study on fertility :	Species : Rat	
	OECD Guideline 414 (Prenatal Dev	elopmental Toxicity Study)

ETY DATA SHEET (REGULATION (EC) n° 1907/ Epoxy Laminating Bio Hardener	,	Version 1.1 (04-01-2024) - Page
Study on development :	Species : Rat	
	•	ion / Developmental Toxicity Screening Test)
REACTION PRODUCTS OF DI-, TRI AND TETRA-PR	OPOXYLATED PROPANE-1.2-DIC	DL WITH AMMONIA (CAS: 9046-10-0)
No toxic effect for reproduction		
Study on development :	Species : Rat	
	OECD Guideline 421 (Reproduct	ion / Developmental Toxicity Screening Test)
POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)		
	OECD Guideline 414 (Prenatal D	Developmental Toxicity Study)
pecific target organ systemic toxicity - single exposu	re :	
METHANESULPHONIC ACID (CAS: 75-75-2)		
Inhalation route :	C 0.23	
pecific target organ systemic toxicity - repeated expo	osure :	
BENZYL ALCOHOL (CAS: 100-51-6)		
Oral route :	C = 400 mg/kg bodyweight/day	
	Species : Rat	
	Duration of exposure : 90 days	
PROPYLIDYNETRIMETHANOL, PROPOXYLATED, R	EACTION PRODUCTS WITH AMM	IONIA (CAS: 39423-51-3)
Oral route :	C >= 100 mg/kg bodyweight/day	
	Species : Rat	
	Duration of exposure : 90 days	
	OECD Guideline 408 (Repeated	Dose 90-Day Oral Toxicity in Rodents)
Dermal route :	C >= 160 mg/kg bodyweight/day	
	Species : Rat	
	Duration of exposure : 90 days	
	OECD Guideline 411 (Subchroni	c Dermal Toxicity: 90-Day Study)
REACTION PRODUCTS OF DI-, TRI AND TETRA-PR		DL WITH AMMONIA (CAS: 9046-10-0)
Oral route :	C = 239 mg/kg bodyweight/day	
	Species : Rat	
	Duration of exposure : 28 days	
	OECD Guideline 407 (Repeated	Dose 28-Day Oral Toxicity in Rodents)
Dermal route :	C = 250 mg/kg bodyweight/day	
	Duration of exposure : 90 days OECD Guideline 411 (Subchroni	c Dermal Toxicity: 90-Day Study)
POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)		
FOLTETTTLEINEFOLTAMINES (CAS. 00131-73-7)	Species : Rat	
.1.2. Mixture		
No toxicological data available for the mixture.		
.2. Information on other hazards		
.2. Information on other nazards		
TION 12 : ECOLOGICAL INFORMATION		
Very toxic to aquatic life with long lasting effects.	stanuova	
The product must not be allowed to run into drains or wa	aterways.	
.1. Toxicity		

METHANESULPHONIC ACID (CAS: 75-75-2) Fish toxicity :

LC50 = 73 mg/l Species : Oncorhynchus mykiss Duration of exposure : 96 h OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity :

EC50 = 260 mg/l

Igae toxicity : EC Sp Du Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu	pecies : Daphnia magna uration of exposure : 48 h CDE Ligne directrice 202 (Daphnia sp., essai d'Immobilisation immédiate) Cr50 >= 12 mg/l pecies : Selenastrum capricornutum uration of exposure : 72 h CDE Ligne directrice 201 (Algues, Essai d'Inhibition de la croissance) OEC = 5.8 mg/l pecies : Selenastrum capricornutum uration of exposure : 72 h CDE Ligne directrice 201 (Algues, Essai d'Inhibition de la croissance) OEC > 5.8 mg/l pecies : Selenastrum capricornutum uration of exposure : 72 h CDE Ligne directrice 201 (Algues, Essai d'Inhibition de la croissance) OEC > 1 mg/l C50 > 100 mg/l pecies : Daphnia magna uration of exposure : 96 h CDE Ligne directrice 203 (Poisson, essai de toxicité aiguë) C50 > 100 mg/l pecies : Daphnia magna uration of exposure : 48 h CDE Ligne directrice 202 (Daphnia sp., essai d'Immobilisation immédiate) Cr50 > 100 mg/l pecies : Scenedesmus subspicatus uration of exposure : 72 h utres lignes directrices Cr50 > 100 mg/l uration of exposure : 72 h UTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3) C50 > 100 mg/l pecies : Oncorhynchus mykiss uration of exposure : 96 h CDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)
Igae toxicity : EC Sp Du Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu Qu	uration of exposure : 48 h CDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate) Cr50 >= 12 mg/l pecies : Selenastrum capricornutum uration of exposure : 72 h CDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance) OEC = 5.8 mg/l pecies : Selenastrum capricornutum uration of exposure : 72 h CDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance) OEC > 5.8 mg/l pecies : Selenastrum capricornutum uration of exposure : 72 h CDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance) OEC > 1 mg/l C50 > 100 mg/l pecies : Daphnia magna uration of exposure : 96 h CDE Ligne directrice 203 (Poisson, essai de toxicité aiguë) C50 > 100 mg/l pecies : Daphnia magna uration of exposure : 48 h CDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate) Cr50 > 100 mg/l pecies : Scenedesmus subspicatus uration of exposure : 72 h utres lignes directrices Cr50 > 100 mg/l uration of exposure : 72 h TION PRODUCTS WITH AMMONIA (CAS: 39423-51-3) C50 > 100 mg/l pecies : Oncorhynchus mykiss uration of exposure : 96 h
Igae toxicity : EC Sp Du Quatic plant toxicity : NC -PHENOXYPROPAN-2-OL (CAS: 770-35-4) ish toxicity : LC Du GC frustacean toxicity : EC Sp Du QC Igae toxicity : EC Sp Du QC	CDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate) Cr50 >= 12 mg/l pecies : Selenastrum capricornutum uration of exposure : 72 h CDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance) OEC = 5.8 mg/l pecies : Selenastrum capricornutum uration of exposure : 72 h CDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance) OEC > 1 mg/l C50 > 100 mg/l uration of exposure : 96 h CDE Ligne directrice 203 (Poisson, essai de toxicité aiguë) C50 > 100 mg/l pecies : Daphnia magna uration of exposure : 48 h CDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate) Cr50 > 100 mg/l pecies : Scenedesmus subspicatus uration of exposure : 72 h utres lignes directrices Cr50 > 100 mg/l pecies : Cr50 > 100 mg/l pecies : Cr50 > 100 mg/l pecies : Corondynchus mykiss uration of exposure : 72 h
quatic plant toxicity : NC	pecies : Selenastrum capricornutum uration of exposure : 72 h CDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance) OEC = 5.8 mg/l pecies : Selenastrum capricornutum uration of exposure : 72 h CDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance) OEC > 1 mg/l C50 > 100 mg/l uration of exposure : 96 h CDE Ligne directrice 203 (Poisson, essai de toxicité aiguë) C50 > 100 mg/l pecies : Daphnia magna uration of exposure : 48 h CDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate) Cr50 > 100 mg/l pecies : Scenedesmus subspicatus uration of exposure : 72 h utres lignes directrices Cr50 > 100 mg/l pecies : Cr50 > 100 mg/l uration of exposure : 72 h CTION PRODUCTS WITH AMMONIA (CAS: 39423-51-3) C50 > 100 mg/l pecies : Oncorhynchus mykiss uration of exposure : 96 h
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ish toxicity : LC Sp Du OC Frustacean toxicity : EC Sp Du OC Igae toxicity : EC Sp	C50 > 100 mg/l pecies : Oncorhynchus mykiss uration of exposure : 96 h
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Sp Du Grustacean toxicity : EC Sp Du OC Igae toxicity : EC Sp	pecies : Oncorhynchus mykiss uration of exposure : 96 h
Igae toxicity : EC	uration of exposure : 96 h
Igae toxicity : EC	
Sp Du OC Igae toxicity : EC Sp	
Igae toxicity : EC	C50 = 13 mg/l
Igae toxicity : EC	pecies : Daphnia magna
Igae toxicity : EC	uration of exposure : 48 h
Sp	CDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)
	Cr50 = 4.4 mg/l
-	pecies : Selenastrum capricornutum
Du	uration of exposure : 72 h
00	CDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)
,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-20-6)	
-	C50 = 130 mg/l
	pecies : Leuciscus idus
	uration of exposure : 96 h
00	CDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)
•	C50 = 65.4 mg/l
	pecies : Daphnia magna
	uration of exposure : 48 h
00	CDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)
	CDE Lighe directive 202 (Daprinia Sp., essai d'infiniobilisation infinediate)
Sp	Cr50 = 58.4 mg/l

FETY DATA SHEET (REGULATION (EC) n° 190 [°] 2 Epoxy Laminating Bio Hardener	112000 - KEACH)	Version 1.1 (04-01-2024) - Page 18/
	OCDE Ligne directrice 201 (Algue	es, Essai d'inhibition de la croissance)
	NOEC = 14.4 mg/l Species : Pseudokirchnerella subo	canitata
	Duration of exposure : 72 h	Supratu
		es, Essai d'inhibition de la croissance)
REACTION PRODUCTS OF DI-, TRI AND TETRA-P Fish toxicity :	ROPOXYLATED PROPANE-1.2-DIO LC50 > 15 mg/l	L WITH AMMONIA (CAS: 9046-10-0)
	Species : Others	
	Duration of exposure : 96 h	
	OCDE Ligne directrice 203 (Poiss	on, essai de toxicité aiguë)
Crustacean toxicity :	EC50 = 80 mg/l	
	Species : Others Duration of exposure : 48 h	
	-	nia sp., essai d'immobilisation immédiate)
BENZYL ALCOHOL (CAS: 100-51-6)		
Fish toxicity :	LC50 = 460 mg/l	
	Species : Pimephales promelas	
	Duration of exposure : 96 h	
	OCDE Ligne directrice 203 (Poiss	on, essai de toxicité aiguë)
Crustacean toxicity :	EC50 = 230 mg/l	
	Species : Daphnia magna	
	Duration of exposure : 48 h OCDE Ligne directrice 202 (Daph	nia sp., essai d'immobilisation immédiate)
	NOEC = 51 mg/l	
	Species : Daphnia magna	
	Duration of exposure : 21 jours	
	OCDE Ligne directrice 211 (Daph	nia magna, essai de reproduction)
Algae toxicity :	ECr50 = 770 mg/l Species : Pseudokirchnerella subo	capitata
	Duration of exposure : 72 h	Jupitata
	-	es, Essai d'inhibition de la croissance)
	NOEC = 310 mg/l	
	Duration of exposure : 72 h	- · · · · · · · · · · · · · · · · · · ·
	OCDE Ligne directrice 201 (Algue	es, Essai d'inhibition de la croissance)
POLYETHYLENEPOLYAMINES (CAS: 68131-73-7) Fish toxicity :	LC50 = 100 mg/l	
	Species : Poecilia reticulata	
	Duration of exposure : 96 h	
Crustacean toxicity :	EC50 = 2.2 mg/l	
	Species : Daphnia magna Duration of exposure : 48 h	
Algae toxicity :	ECr50 = 0.23 mg/l	
Ague tohoky .	Species : Pseudokirchnerella subo Duration of exposure : 72 h	capitata
2.1.2. Mixtures		
No aquatic toxicity data available for the mixture.		
2.2. Persistence and degradability		
2.2.1. Substances METHANESULPHONIC ACID (CAS: 75-75-2)		

FETY DATA SHEET (REGULATION (EC) n° 190 2 Epoxy Laminating Bio Hardener	1/12000 - REACH)	Version 1.1 (04-01-2024) - Page 1
1-PHENOXYPROPAN-2-OL (CAS: 770-35-4)		
Biodegradability :	no degradability data is avai degrading quickly.	ilable, the substance is considered as not
BENZYL ALCOHOL (CAS: 100-51-6)		
Biodegradability :	Rapidly degradable.	
PROPYLIDYNETRIMETHANOL, PROPOXYLATED, Biodegradability :	REACTION PRODUCTS WITH Non-rapidly degradable.	AMMONIA (CAS: 39423-51-3)
1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-	-20-6)	
Biodegradability :	•	ilable, the substance is considered as not
REACTION PRODUCTS OF DI-, TRI AND TETRA-P Biodegradability :		2-DIOL WITH AMMONIA (CAS: 9046-10-0) ilable, the substance is considered as not
POLYETHYLENEPOLYAMINES (CAS: 68131-73-7) Biodegradability :	Non-rapidly degradable.	
2.3. Bioaccumulative potential		
.3.1. Substances		
METHANESULPHONIC ACID (CAS: 75-75-2) Octanol/water partition coefficient :	log Koe = -2.38	
	0	
1-PHENOXYPROPAN-2-OL (CAS: 770-35-4) Octanol/water partition coefficient :	log Koe = 1.41	
Bioaccumulation :	BCF < 100	
BENZYL ALCOHOL (CAS: 100-51-6) Octanol/water partition coefficient :	log Koe = 1.1	
PROPYLIDYNETRIMETHANOL, PROPOXYLATED, Octanol/water partition coefficient :	REACTION PRODUCTS WITH log Koe = -1.13	AMMONIA (CAS: 39423-51-3)
1,3-CYCLOHEXANEDIMETHANAMINE (CAS: 2579-	-20-6)	
Octanol/water partition coefficient :	log Koe = 0.783	
	OCDE Ligne directrice 107 (par agitation en flacon)	(Coefficient de partage (n-octanol/eau): méthode
REACTION PRODUCTS OF DI-, TRI AND TETRA-P Octanol/water partition coefficient :		2-DIOL WITH AMMONIA (CAS: 9046-10-0)
POLYETHYLENEPOLYAMINES (CAS: 68131-73-7) Octanol/water partition coefficient :	log Koe = -3.67	
2.4. Mobility in soil		
No data available.		
2.5. Results of PBT and vPvB assessment		
No data available.		
2.6. Endocrine disrupting properties		
No data available.		
2.7. Other adverse effects		
No data available.		
	hazards for water (WGK, AwS	SV Annex I, KBws) :
No data available. German regulations concerning the classification of WGK 3 : Extremely hazardous for water.	hazards for water (WGK, AwS	SV Annex I, KBws) :

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :

07 01 08 * other still bottoms and reaction residues

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 -IMDG 2022 [41-22] - ICAO/IATA 2023 [64]).

14.1. UN number or ID number

2735

14.2. UN proper shipping name

UN2735=POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyethylenepolyamines, 1,3-cyclohexanedimethanamine)

14.3. Transport hazard class(es)

- Classification :



8

14.4. Packing group

Ш

14.5. Environmental hazards

- Environmentally hazardous material :



14.6. Special precautions for user

			••								
ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel	
	8	C7	II	8	80	1 L	274	E2	2	E	
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage	Segregati		
								Handling	on		
	8	-	II	1 L	F-A. S-B	274	E2	Category	SGG18		
								A	SG35		
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ		
	8	-	II	851	1 L	855	30 L	A3 A803	E2		
	8	-	II	Y840	0.5 L	-	-	A3 A803	E2		

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG. For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(polyethylenepolyamines)

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

Container information:

Packaging to be fitted with child-resistant fastenings (see EC Regulation No. 1272/2008, Annex II, Part 3). Containers to be fitted with a tactile warning of danger (see EC Regulation No. 1272/2008, Annex II, Part 3).

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

Particular provisions :

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 3 : Extremely hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H290	May be corrosive to metals.
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.
H335	May cause respiratory irritation.
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.

Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

UFI : Unique formulation identifier.

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS05 : Corrosion GHS07 : Exclamation mark GHS09 : Environment PBT: Persistent, bioaccumulable and toxic. vPvB : Very persistent, very bioaccumulable. SVHC : Substances of very high concern.