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 :







GHS05

GHS07

GHS09

Signal Word : DANGER

Product identifiers:

EC 216-823-5 2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE

EC 219-371-7 BUTANEDIOLDIGLYCIDYL ETHER

Additional labeling:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Hazard statements :

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention:

P261 Avoid breathing 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

3.2. Mixtures

Composition:

(EC) 1272/2008	Note	%
GHS07, GHS09		80 <= x% < 90
Wng		
Skin Irrit. 2, H315		
Skin Sens. 1, H317		
Eye Irrit. 2, H319		
Aquatic Chronic 2, H411		
GHS07, GHS05		20 <= x% < 23
Dgr		
Acute Tox. 4, H312		
Skin Irrit. 2, H315		
Skin Sens. 1A, H317		
Eye Dam. 1, H318		
Acute Tox. 4, H332		
	Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 GHS07, GHS05 Dgr Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Dam. 1, H318	Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 GHS07, GHS05 Dgr Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Dam. 1, H318

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: Workers.

Exposure method: Dermal contact.

Potential health effects: Short term systemic effects.

DNEL: 8.3 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 8.3 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL: 12.3 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 12.3 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Short term systemic effects.

DNEL: 0.75 mg/kg body weight/day

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 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

Predicted no effect concentration (PNEC):

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

Environmental compartment: Soil.

PNEC: 0.065 mg/kg

Environmental compartment: Fresh water. PNEC : $6 \mu g/I$

Environmental compartment: Sea water. PNEC : 1 $\mu g/l$

Environmental compartment: Intermittent waste water.

PNEC: 0.013 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 0.341 mg/kg

Environmental compartment: Marine sediment. PNEC: 0.034 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 10 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









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

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	
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	
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

Relative vapour density

Vapour density : Not stated.

9.2. Other information

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 : 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

 $2,2'-[(1-\mathsf{METHYLETHYLIDENE})\mathsf{BIS}(4,1-\mathsf{PHENYLENEOXYMETHYLENE})]\mathsf{BISOXIRANE}\ (\mathsf{CAS}\colon\ 1675-54-3)$

Oral route: LD50 = 11400 mg/kg

Species: Rat

Dermal route : LD50 = 2000 mg/kg

Species: Rat

Skin corrosion/skin irritation:

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

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

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

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-PHENYLENEOXYMETHYLENE)]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-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

Biodegradability : no degradability data is available, the substance is considered as not

degrading quickly.

12.3. Bioaccumulative potential

12.3.1. Substances

BUTANEDIOLDIGLYCIDYL ETHER (CAS: 2425-79-8)

Octanol/water partition coefficient : log Koe = 0.01

Bioaccumulation: BCF = 3.162

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

Octanol/water partition coefficient : log Koe <= 3.78

Bioaccumulation: BCF < 100.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

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

WGK 2: Hazardous for water.

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, preferably 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 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)]bisoxirane, butanedioldiglycidyl ether)

14.3. Transport hazard class(es)

- Classification :



q

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 regulation if Q <= 5 I / 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		Α	

*Not subject to this regulation if Q <= 5 I / 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.		
H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled.	H312	Harmful in contact with skin.
H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled.	H315	Causes skin irritation.
H319 Causes serious eye irritation. H332 Harmful if inhaled.	H317	May cause an allergic skin reaction.
H332 Harmful if inhaled.	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.	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.

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

 $\ensuremath{\mathsf{EC50}}$: 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:







GHS05

GHS09

GHS0

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)

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LB2 Epoxy Laminating Bio Hardener

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 - General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements - Prevention :

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 - 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 - Storage :

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 3/2
REACH: 01-2119556886-20-XXXX PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411		
CAS: 100-51-6 EC: 202-859-9 REACH: 01-2119492630-38-XXXX	GHS07 Wng Acute Tox. 4, H302 Eye Irrit. 2, H319	[1]	2.5 <= x % < 10
CAS: 770-35-4 EC: 212-222-7 REACH: 01-2119486566-23-XXXX	Acute Tox. 4, H332 GHS05 Dgr Eye Dam. 1, H318		1 <= x % < 2.5
1-PHENOXYPROPAN-2-OL CAS: 75-75-2	GHS07, GHS05	[1]	1 <= x % < 2.5
EC: 200-898-6 REACH: 01-2119491166-34-XXXX	Dgr Met. Corr. 1, H290 Acute Tox. 4, H302	119	1 - A /0 - 2.0
METHANESULPHONIC ACID	Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335		

Specific concentration limits:

pecific 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 :

(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: Workers.

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 19.44 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 6.76 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL: 0.7 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 8.33 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 8.33 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 1.44 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL: 0.42 mg of substance/m3

1-PHENOXYPROPAN-2-OL (CAS: 770-35-4)

Final use: Workers.

Exposure method:

Potential health effects:

DNEL:

Dermal contact.

Long term systemic effects.

42 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 25.7 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 3.65 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 21 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 12.7 mg of substance/m3

BENZYL ALCOHOL (CAS: 100-51-6)

Final use: Workers.
Exposure method: Dermal contact.

Potential health effects:

DNEL:

Short term systemic effects.

40 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 8 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL: 110 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 22 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 4 mg/kg body weight/day

Exposure method: Ingestion.

Potential health effects: Short term systemic effects.

DNEL: 20 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 4 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Short term systemic effects.

DNEL: 20 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 5.4 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL: 27 mg of substance/m3

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

Final use:Workers.

Exposure method:

Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 4 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 4.9 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 0.5 mg/kg body weight/day

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

Final use: Workers.

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 0.1 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL: 0.00947 mg of substance/m3

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Final use: Workers.

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 2.5 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term local effects.

DNEL: 0.623 mg of substance/cm2

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 0.04 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 1.25 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term local effects.

DNEL: 0.311 mg of substance/cm2

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Final use: Workers.

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 0.91 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term local effects.

DNEL: 0.44 mg of substance/cm2

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL: 8550 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 1.59 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Short term systemic effects.

DNEL: 32 mg/kg body weight/day

Exposure method: Ingestion.

Potential health effects:

DNEL:

Long term systemic effects.

0.65 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Short term systemic effects.

DNEL: 13 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Short term local effects.

DNEL: 1.59 mg of substance/cm2

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 0.4 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term local effects.

DNEL: 0.68 mg of substance/cm2

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL: 2542 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 0.46 mg of substance/m3

Predicted no effect concentration (PNEC):

METHANESULPHONIC ACID (CAS: 75-75-2)

Environmental compartment: Soil.

PNEC: 0.00183 mg/kg

Environmental compartment: Fresh water. PNEC: 0.012 mg/l

Environmental compartment: Sea water. PNEC: 0.0012 mg/l

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)

Environmental compartment: Soil.
PNEC: 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: Waste water treatment plant.

PNEC: 10 mg/l

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.

PNEC: 39 mg/l

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

Environmental compartment: Soil.

PNEC: 0.002 mg/kg

Environmental compartment: Fresh water.
PNEC: 0.004 mg/l

Environmental compartment: Sea water.

PNEC: 0.00044 mg/l

Environmental compartment: Intermittent waste water.

PNEC: 0.044 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 0.0224 mg/kg

Environmental compartment: Marine sediment. PNEC: 0.00224 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 10 mg/l

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

Environmental compartment: Soil.

PNEC: 0.024 mg/kg

Environmental compartment: Fresh water. PNEC: 0.033 mg/l

Environmental compartment: Sea water. PNEC: 0.003 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 0.218 mg/kg

Environmental compartment: Marine sediment. PNEC : 0.022 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 10 mg/l

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Environmental compartment: Soil.

PNEC: 0.0176 mg/kg

Environmental compartment: Fresh water.

PNEC: 0.015 mg/l

Environmental compartment: Sea water.
PNEC: 0.0143 mg/l

Environmental compartment: Intermittent waste water.

PNEC: 0.15 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 0.132 mg/kg

Environmental compartment: Marine sediment.

PNEC: 0.125 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 7.5 mg/l

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Environmental compartment: Soil.

PNEC: 10 mg/kg

Environmental compartment: Fresh water.

PNEC: 1.6 µg/l

Environmental compartment: Sea water. PNEC: 1.6 µg/l

Environmental compartment: Fresh water sediment.

PNEC: 0.14 mg/kg

Environmental compartment: Marine sediment. PNEC: 0.14 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 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

Not stated.

Not stated.

Odour

Odour threshold : **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

Flammability (solid, gas) :

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%): Not stated. Explosive properties, upper explosivity limit (%): Not stated.

Flash point

FP > 100°C. Flash Point Interval:

Auto-ignition temperature

Self-ignition temperature : Not relevant.

Decomposition temperature

Not relevant. Decomposition point/decomposition range :

Not stated. pH (aqueous solution): 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

Index of refraction :	1.4912 ± 0.002 @ 25 °C
	Method of determining the refractive index :
	NF ISO 280:1999 (T75-112)

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

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

Oral route : 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: 2579-20-6)

Oral route: 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-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Oral route: 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, 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-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Corrosivity: 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)

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

Guinea Pig Maximisation Test (GMPT): Non-sensitiser.

Species: Guinea pig

OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

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

Ames test (in vitro): Negative.

BENZYL ALCOHOL (CAS: 100-51-6)

Mutagenesis (in vivo) : Negative.

Species : Mouse

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro): Negative.

Species : Bacteria

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

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

Mutagenesis (in vivo): Negative.

Species: Mouse

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

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 Erythrocyte Micronucleus Test)

Mutagenesis (in vitro): Negative.

Species: Mammalian Cell Line

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro): Negative.

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

No mutagenic effect.

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

No mutagenic effect.

Mutagenesis (in vivo): Negative.

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity:

BENZYL ALCOHOL (CAS: 100-51-6)

Carcinogenicity Test: Negative.

No carcinogenic effect. Species: Mouse

OECD Guideline 453 (Combined Chronic 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 Developmental Toxicity Study)

BENZYL ALCOHOL (CAS: 100-51-6) No toxic effect for reproduction

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

No toxic effect for reproduction

Study on fertility: Species: Rat

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

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LB2 Epoxy Laminating Bio Hardener

Study on development: Species: Rat

OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

No toxic effect for reproduction

Study on development : Species : Rat

OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Specific target organ systemic toxicity - single exposure :

METHANESULPHONIC ACID (CAS: 75-75-2)

Inhalation route: C 0.23

Specific target organ systemic toxicity - repeated exposure :

BENZYL ALCOHOL (CAS: 100-51-6)

Oral route : C = 400 mg/kg bodyweight/day

Species: Rat

Duration of exposure: 90 days

PROPYLIDYNETRIMETHANOL, PROPOXYLATED, REACTION PRODUCTS WITH AMMONIA (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 : $C \ge 160 \text{ mg/kg bodyweight/day}$

Species: Rat

Duration of exposure: 90 days

OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL 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 (Subchronic Dermal Toxicity: 90-Day Study)

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Species : Rat

11.1.2. Mixture

No toxicological data available for the mixture.

11.2. Information on other hazards

SECTION 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

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

Species : Daphnia magna Duration of exposure : 48 h

OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

Algae toxicity: ECr50 >= 12 mg/l

Species: Selenastrum capricornutum

Duration of exposure: 72 h

OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

NOEC = 5.8 mg/l

Species: Selenastrum capricornutum

Duration of exposure: 72 h

OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

Aquatic plant toxicity: NOEC > 1 mg/l

1-PHENOXYPROPAN-2-OL (CAS: 770-35-4)

Fish toxicity : LC50 > 100 mg/l

Duration of exposure: 96 h

OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity: EC50 > 100 mg/l

Species : Daphnia magna Duration of exposure : 48 h

OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

Algae toxicity: ECr50 > 100 mg/l

Species: Scenedesmus subspicatus

Duration of exposure : 72 h Autres lignes directrices

Aquatic plant toxicity: ECr50 > 100 mg/l

Duration of exposure: 72 h

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

Fish toxicity: LC50 > 100 mg/l

Species : Oncorhynchus mykiss Duration of exposure : 96 h

OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity: EC50 = 13 mg/l

Species : Daphnia magna Duration of exposure : 48 h

OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

Algae toxicity: ECr50 = 4.4 mg/l

Species: Selenastrum capricornutum

Duration of exposure: 72 h

OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

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

Fish toxicity: LC50 = 130 mg/l

Species : Leuciscus idus Duration of exposure : 96 h

OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity : EC50 = 65.4 mg/l

Species : Daphnia magna Duration of exposure : 48 h

OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

Algae toxicity: ECr50 = 58.4 mg/l

Species: Pseudokirchnerella subcapitata

Duration of exposure: 72 h

OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

NOEC = 14.4 mg/l

Species: Pseudokirchnerella subcapitata

Duration of exposure: 72 h

OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Fish toxicity: LC50 > 15 mg/l

Species : Others

Duration of exposure: 96 h

OCDE Ligne directrice 203 (Poisson, essai de toxicité aiguë)

Crustacean toxicity: EC50 = 80 mg/l

Species: Others

Duration of exposure: 48 h

OCDE Ligne directrice 202 (Daphnia 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 (Poisson, essai de toxicité aiguë)

Crustacean toxicity: EC50 = 230 mg/l

Species : Daphnia magna Duration of exposure : 48 h

OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)

NOEC = 51 mg/l

Species : Daphnia magna
Duration of exposure : 21 jours

OCDE Ligne directrice 211 (Daphnia magna, essai de reproduction)

Algae toxicity: ECr50 = 770 mg/l

Species: Pseudokirchnerella subcapitata

Duration of exposure: 72 h

OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)

NOEC = 310 mg/l

Duration of exposure: 72 h

OCDE Ligne directrice 201 (Algues, 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

Species : Pseudokirchnerella subcapitata

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

METHANESULPHONIC ACID (CAS: 75-75-2)

Biodegradability: Rapidly degradable.

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1-PHENOXYPROPAN-2-OL (CAS: 770-35-4)

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

BENZYL ALCOHOL (CAS: 100-51-6)

Biodegradability: Rapidly degradable.

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

Biodegradability: Non-rapidly degradable.

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

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Biodegradability: no degradability data is available, the substance is considered as not

degrading quickly.

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Biodegradability: Non-rapidly degradable.

12.3. Bioaccumulative potential

12.3.1. Substances

METHANESULPHONIC ACID (CAS: 75-75-2)

Octanol/water partition coefficient : log Koe = -2.38

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

Octanol/water partition coefficient : log Koe = -1.13

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

Octanol/water partition coefficient : log Koe = 0.783

OCDE Ligne directrice 107 (Coefficient de partage (n-octanol/eau): méthode

par agitation en flacon)

REACTION PRODUCTS OF DI-, TRI AND TETRA-PROPOXYLATED PROPANE-1.2-DIOL WITH AMMONIA (CAS: 9046-10-0)

Octanol/water partition coefficient : log Koe = 1.34

POLYETHYLENEPOLYAMINES (CAS: 68131-73-7)

Octanol/water partition coefficient : log Koe = -3.67

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

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

WGK 3 : Extremely hazardous for water.

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

p									
Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
8	C7	II	8	80	1 L	274	E2	2	E
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	
							Α	SG35	
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	
_	Class 8 Class 8 Class 8	Class Code 8 C7 Class 2°Label 8 - Class 2°Label 8 -	8 C7 II Class 2°Label Pack gr. 8 - II Class 2°Label Pack gr. 8 - II	Class Code Pack gr. Label 8 C7 II 8 Class 2°Label Pack gr. LQ 8 - II 1 L Class 2°Label Pack gr. Passager 8 - II 851	Class Code Pack gr. Label Ident. 8 C7 II 8 80 Class 2°Label Pack gr. LQ EMS 8 - II 1 L F-A. S-B Class 2°Label Pack gr. Passager Passager 8 - II 851 1 L	Class Code Pack gr. Label Ident. LQ 8 C7 II 8 80 1 L Class 2°Label Pack gr. LQ EMS Provis. 8 - II 1 L F-A. S-B 274 Class 2°Label Pack gr. Passager Passager Cargo 8 - II 851 1 L 855	Class Code Pack gr. Label Ident. LQ Provis. 8 C7 II 8 80 1 L 274 Class 2°Label Pack gr. LQ EMS Provis. EQ 8 - II 1 L F-A. S-B 274 E2 Class 2°Label Pack gr. Passager Passager Cargo Cargo 8 - II 851 1 L 855 30 L	Class Code Pack gr. Label Ident. LQ Provis. EQ 8 C7 II 8 80 1 L 274 E2 Class 2°Label Pack gr. LQ EMS Provis. EQ Stowage Handling 8 - II 1 L F-A. S-B 274 E2 Category A Class 2°Label Pack gr. Passager Passager Cargo Cargo note 8 - II 851 1 L 855 30 L A3 A803	Class Code Pack gr. Label Ident. LQ Provis. EQ Cat. 8 C7 II 8 80 1 L 274 E2 2 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 SG35 Class 2°Label Pack gr. Passager Passager Cargo Cargo note EQ 8 - II 851 1 L 855 30 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.

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

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).

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LB2 Epoxy Laminating Bio Hardener

GHS05 : Corrosion GHS07 : Exclamation mark GHS09 : Environment

PBT: Persistent, bioaccumulable and toxic. vPvB: Very persistent, very bioaccumulable. SVHC: Substances of very high concern.