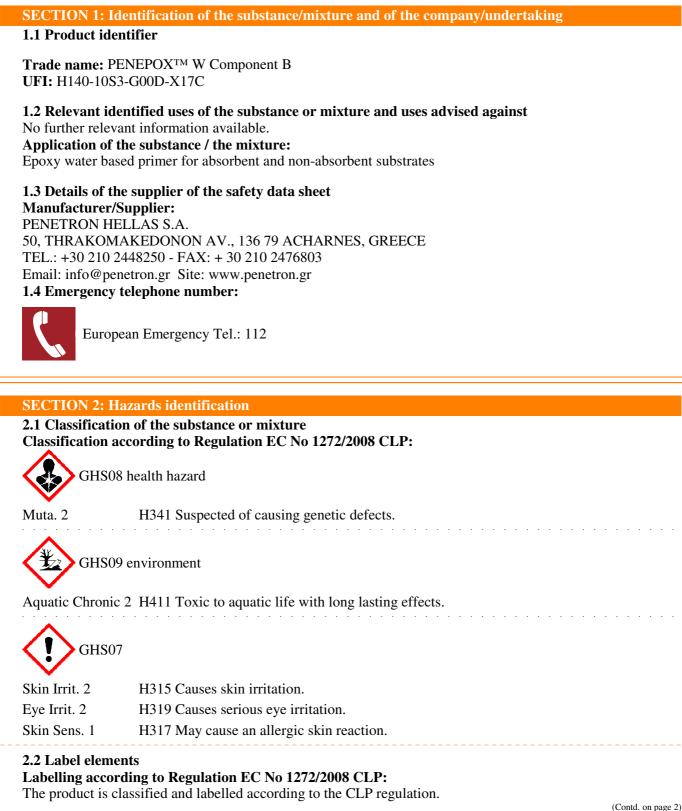


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Hazard pictograms:



Signal word: Warning

Hazard-determining components of labelling:

2,3-epoxypropyl o-tolyl ether bis-[4-(2,3-epoxipropoxi)phenyl]propane

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

i i ccautional y sta	
P102	Keep out of reach of children.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
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.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
Additional inform	nation:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture: consisting of the following components.

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Ingredients according Regu	lation (EU) 2020/878:			
CAS: 1675-54-3	bis-[4-(2,3-epoxipropoxi)phenyl]propane	50%		
EINECS: 216-823-5	Aquatic Chronic 2, H411; 🗘 Skin Irrit. 2, H315; Eye Irrit. 2, H319;			
Index number: 603-073-00-2				
	Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5 \%$			
	Skin Irrit. 2; H315: C ≥ 5 %			
CAS: 2210-79-9	2,3-epoxypropyl o-tolyl ether	50%		
EINECS: 218-645-3 Index number: 603-056-00-X	Muta. 2, H341; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317			

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Take affected persons out into the fresh air.

Seek immediate medical advice.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for at least 15 minutes under running water.

Protect unharmed eye.

Seek immediate medical advice.

After swallowing:

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.
For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture
Carbon dioxide (CO2)
Carbon monoxide (CO)
5.3 Advice for firefighters
Protective equipment:
Mouth respiratory protective device.
Wear fully protective suit.

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Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Avoid inhalation of vapors. Wear protective clothing. Keep away from ignition sources. **6.2** Environmental precautions: Do not allow to enter sewers/ surface or ground water. Do not allow to penetrate the ground/soil. 6.3 Methods and material for containment and cleaning up: Collect with absorbent material (sand, diatomite). Ensure adequate ventilation. Absorb liquid components with liquid-binding material. **6.4 Reference to other sections:** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling No special precautions are necessary if used correctly. Ensure good ventilation/exhaustion at the workplace. Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges. Keep away from heat, sparks, open flames and hot surfaces. 7.2 Conditions for safe storage, including any incompatibilities **Storage: Requirements to be met by storerooms and receptacles:** Store in a cool location. Store away from sources of ignition Prevent any seepage into the ground. Provide ventilation for receptacles. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Individual protection measures, such as personal protective equipment General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection:



Use suitable respiratory protective device in case of insufficient ventilation. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of charcoal filter and particulate filter A2-P2 (EN529) is recommended.

Hand protection



Protective gloves resistant to chemicals (standard EN 374-1)

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves

Hand protection when handling the product at room temperature:

Butyl rubber - IIR: thickness ≥ 0.5 mm; breakthrough time ≥ 480 min.

Fluorinated rubber - FKM: thickness ≥ 0.4 mm; breakthrough time ≥ 480 min.

Recommendation: contaminated gloves should be disposed of.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection



Safety glasses with side-shields (frame goggles) (e.g. EN 166)

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Body protection:



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Chemically resistant, protective work clothing (EN 14605) and boots.

SECTION 0. Dension and sharring manual transmitter	
SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p	ronerties
General Information	i oper ues
Colour:	transparent/yellowish
Odour:	
Odour threshold:	Not determined
Melting point/freezing point:	<-15 °C
Flammability	Not applicable
Lower and upper explosion limit	The applicable
Lower:	Not determined
Upper:	Not determined
Flash point:	121 °C (ASTM D 93)
i lush point.	Not Flammable
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Kinematic viscosity	
Dynamic at 20 °C:	500-700 mPas
Solubility	
water:	Not miscible
	Not determined
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density at 20 °C:	1.14 g/cm ³
Relative density	Not determined
Vapour density	Not determined
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of health an	ıd
environment, and on safety.	
Auto-ignition temperature:	320 °C
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
VOC (EC)	30 g/l
Cloud point / clarification point:	
Oxidising properties	Not oxidising
Evaporation rate	Not determined
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SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided Stable at environment temperature.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid Avoid heat, sparkles, naked flame or other sources of ignition.

10.5 Incompatible materials No further relevant information available.

10.6 Hazardous decomposition products No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Based on available data, the classification criteria are not met. LD/LC50 values relevant for classification: CAS: 1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane

Oral LD50 >2,000 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rat) Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity Mutagenic Category 2 Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met.

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Aspiration hazard Based on available data, the classification criteria are not met. Additional toxicological information: Repeated dose toxicity Based on available data, the classification criteria are not met. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Muta. 2 11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: CAS: 1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

EC50/48 h 1,8 mg/l (Daphnia) EC50/72h 9,4 mg/l (algae) EC50/96 h 2 mg/l (Leuciscus idus) NOEC / 21 Tage 0,3 mg/l (Daphnia) 12.2 Persistence and degradability No further relevant information available. 12.3 Bioaccumulative potential No further relevant information available. 12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable. **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11. 12.7 Other adverse effects Remark: Toxic for fish Additional ecological information: **General notes:** Also poisonous for fish and plankton in water bodies. The product contains materials that are harmful to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods Recommendation



Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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SECTION 14: Transport information	
14.1 UN number or ID number	
ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name	
ADR	3082 ENVIRONMENTALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S. (2,3-epoxypropyl o-
	tolyl ether, 2,2'-[(1-methylethylidene)bis(4,1-
	phenyleneoxymethylene)]bisoxirane)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (2,3-epoxypropyl o-tolyl ether, 2,2'-[(1
	methylethylidene)bis(4,1-phenyleneoxymethylene)]
	bisoxirane), MARINE POLLUTANT
ΙΑΤΑ	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (2,3-epoxypropyl o-tolyl ether, 2,2'-[(1
	methylethylidene)bis(4,1-phenyleneoxymethylene)]
14.2 Thomas and boroud -1()	bisoxirane)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Environmental Hazardous
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and
	articles.
Hazard identification number (Kemler code):	90
EMS Number:	F-A,S-F
Stowage Category	A
14.7 Maritime transport in bulk according to IM instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
Free Jammer (2.X)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
P ort enteB orl	(Contd. on page 1

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Trade name: PENEPOXTM W Component B

IMDGLimited quantities (LQ)5LExcepted quantities (EQ)Code: E1Maximum net quantity per inner packaging: 30 mlMaximum net quantity per outer packaging: 1000 mlUN ''Model Regulation'':UN 3082 ENVIRONMENTALLY HAZARDOUSSUBSTANCE, LIQUID, N.O.S. (2,3-EPOXYPROPYLO-TOLYL ETHER, 2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE), 9, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

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CLP Regulation 1272/2008/EC

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

Directive 94/62/EC on packaging and packaging waste.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

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	SUSTCHEM S.A.
	REACH & Chemical Services Department
	A: 144, 3rd Septemvriou, GR 112 51 Athens, Greece
	T: +30 210 8252510 F: +30 210 8252575
	W: www.sustchem.gr E: info@suschem.gr
Version	number of previous version: 4
	ations and acronyms:
	ord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
Internationa	al Carriage of Dangerous Goods by Road)
	ernational Maritime Code for Dangerous Goods
	rnational Air Transport Association
	ally Harmonised System of Classification and Labelling of Chemicals
	European Inventory of Existing Commercial Chemical Substances
	European List of Notified Chemical Substances
	nical Abstracts Service (division of the American Chemical Society)
	tile Organic Compounds (USA, EU)
	al concentration, 50 percent
	nal dose, 50 percent
	stent, Bioaccumulative and Toxic
	ostances of Very High Concern Persistent and very Bioaccumulative
	2: Skin corrosion/irritation – Category 2
	: Serious eye damage/eye irritation – Category 2
	1: Skin sensitisation – Category 1
	erm cell mutagenicity – Category 2
	ronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2