Security data sheet



Product:	ET538
Manufacturer:	PERMABOND ENGINEERING ADHESIVES
Product group:	KLEBSTOFF
Article group:	2-K KLEBSTOFF
Download:	27.04.2024

PERMABOND ET538A

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Devereberd
Permapond
Engineering Adhesives

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According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

SECTION 1. Identification of the substance/mixture and of the company/undertaking							
1.1. Product identifier							
Product name		Permabond E	ET538A				
1.2. Relevant identified	uses of the substance or mi	xture and use	es advised again	nst			
Intended use		Adhesive					
Identified Uses		Industrial	P	Professional		Consumer	
Use		\checkmark	~			-	
1.3. Details of the suppl	lier of the safety data sheet						
Name		Permabond E	Engineering Adl	hesives			
Full address			ler Lohweg 18				
District and Country		40547	Düsseldorf				
		Tel.	Germany +44 (0)1962 71	1 661			
e-mail address of the	competent person	Tel.	+44 (0)1902 71	1 00 1			
responsible for the Sa	· ·	info.europe@	gpermabond.co	m			
Supplier:		Permabond E	Engineering Adl	hesives Ltd			
		Wessex Way	, Colden Comm	on,			
			Hampshire SO2	1 1WP, UK			
		tel: +44 (0)1					
		mail: info.eu	urope@permabo	ond.com			
1.4. Emergency telephone number							
For urgent inquiries re	fer to	+44 (0)1962 7	711 661(8.00 ar	n-5.00 pm	Mon-Fri)		
		CHEMTREC	UK: +(44)-870-8	200418			
			Ireland: +(353)-1				
		CHEMTREC	Australia: +(61)	-290372994			
		CHEMTREC I	New Zealand: +	(64)-9801003	34		

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

EN



Permabond ET538A

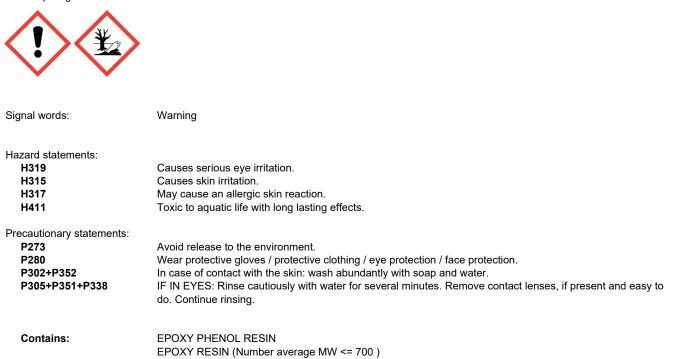
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SECTION 2. Hazards identification ... / >>

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
EPOXY RESIN	l (Number average MW <= 700)	
INDEX	60 ≤ x < 100	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411, EUH205
EC	216-823-5	Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%
CAS	1675-54-3	-
REACH Reg.	01-2119456619-26-XXXX	
EPOXY PHEN	OL RESIN	
INDEX	2,5≤x< 5	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC	500-006-8	
CAS	9003-36-5	
REACH Reg.	01-2119454392-40-XXXX	

The full wording of hazard (H) phrases is given in section 16 of the sheet.



SECTION 4. First aid measures

4.1. Description of first aid measures

Skin: Wash the skin thoroughly with soap and water. If symptoms arise, request medical assistance Eyes: Make sure you have removed any contact lenses before rinsing your eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Consult a doctor if the discomfort continues. Ingestion: rinse the mouth with water thoroughly. Give plenty of water to drink. Do not cause vomiting. Consult a doctor. Inhalation: Move the exposed person to fresh air. Consult a doctor in case of serious symptoms or persistent.

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

Contact with the skin: skin irritation. Mild dermatitis, allergic rash. Contact with eyes: irritating and can cause redness and pain.

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

Note for the doctor no specific recommendation. Symptomatic treatment.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE Avoid breathing combustion products, carbon monoxide (CO), carbon dioxide (CO2), and nitric oxides (NOx).

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections



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Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Adhesive

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

			EPOXY F	PHENOL RESI	N			
Predicted no-effect con	centration	- PNEC						
Normal value in fresh	water	0,003	mg/l					
Normal value in marin	e water	0,0003	mg/l					
Normal value for fresh	water sedir	0,294	mg/kg					
Normal value for mari	0,0294	mg/kg						
Normal value of STP microorganisms 10 mg/l								
Normal value for the terrestrial compartment 0,237 mg/kg								
Health - Derived no-effe	ct level - D	NEL / DMEL						
	Effects on	n consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation		-		-		29,39		-
						mg/m3		
Skin						104,15		
						mg/kg/d		
		EPO	XY RESIN (Num	ber average N	/IW <= 700)			
Predicted no-effect con			XY RESIN (Num	iber average N	/W <= 700)			
Normal value in fresh	water		XY RESIN (Num	ber average N	/IW <= 700)	0,006	mg/l	
Normal value in fresh Normal value in marin	water e water	- PNEC	XY RESIN (Num	ber average N	/IW <= 700)	0,001	mg/l mg/l	
Normal value in fresh Normal value in marin Normal value for fresh	water e water n water sedir	- PNEC	XY RESIN (Num	ber average N	/IW <= 700)	0,001 0,341	mg/l mg/kg	
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari	water e water n water sedir ne water sed	- PNEC ment diment	XY RESIN (Num	ber average N	/IW <= 700)	0,001 0,341 0,034	mg/l mg/kg mg/kg	
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP n	water le water n water sedir ne water sed microorganis	- PNEC ment diment sms		ber average N	/IW <= 700)	0,001 0,341 0,034 10	mg/l mg/kg	
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP i Normal value of the fo	water e water n water sedir ne water sed microorganis ood chain (s	- PNEC ment diment sms secondary poisol		ber average N	/IW <= 700)	0,001 0,341 0,034 10 11	mg/l mg/kg mg/kg mg/l mg/kg	
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP i Normal value for the for Normal value for the for	water water sedir water sedir ne water sed microorganis ood chain (s errestrial con	- PNEC ment diment sms secondary poison mpartment		ber average N	/IW <= 700)	0,001 0,341 0,034 10	mg/l mg/kg mg/kg mg/l	
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP i Normal value of the fo	water water sedir water sedir ne water sed microorganis ood chain (s errestrial con ect level - D	- PNEC ment diment sms secondary poison mpartment NEL / DMEL		ber average N		0,001 0,341 0,034 10 11 0,065	mg/l mg/kg mg/kg mg/l mg/kg	
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP i Normal value for the fo Normal value for the to Health - Derived no-effe	water le water n water sedir ne water sedir microorganis ood chain (s errestrial con ect level - D Effects on	- PNEC ment diment sms secondary poison mpartment	ning)		Effects on w	0,001 0,341 0,034 10 11 0,065	mg/l mg/kg mg/kg mg/l mg/kg mg/kg	
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP i Normal value for the for Normal value for the for	water le water ne water sedir ne water sedir microorganis ood chain (s errestrial con ect level - D Effects on Acute	- PNEC ment diment sms secondary poiso mpartment NEL / DMEL n consumers Acute	ning) Chronic	Chronic	Effects on w Acute	0,001 0,341 0,034 10 11 0,065 vorkers Acute	mg/l mg/kg mg/kg mg/kg mg/kg Chronic	Chronic
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP i Normal value for the fo Normal value for the to Health - Derived no-effe	water le water n water sedir ne water sedir microorganis ood chain (s errestrial con ect level - D Effects on	- PNEC ment diment sms secondary poison mpartment NEL / DMEL n consumers	ning)	Chronic systemic	Effects on w	0,001 0,341 0,034 10 11 0,065	mg/l mg/kg mg/kg mg/l mg/kg mg/kg	Chronic systemic
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP i Normal value for the fo Normal value for the to Health - Derived no-effe	water le water ne water sedir ne water sedir microorganis ood chain (s errestrial con ect level - D Effects on Acute	- PNEC ment diment sms secondary poiso mpartment NEL / DMEL n consumers Acute	ning) Chronic	Chronic systemic 0,5	Effects on w Acute	0,001 0,341 0,034 10 11 0,065 vorkers Acute	mg/l mg/kg mg/kg mg/kg mg/kg Chronic	
Normal value in fresh Normal value in marin Normal value for fresh Normal value for marin Normal value of STP i Normal value for the fr Normal value for the tr Health - Derived no-effe Route of exposure Oral	water le water ne water sedir ne water sedir microorganis ood chain (s errestrial con ect level - D Effects on Acute	- PNEC ment diment sms secondary poiso mpartment NEL / DMEL n consumers Acute	ning) Chronic	Chronic systemic 0,5 mg/kg/d	Effects on w Acute	0,001 0,341 0,034 10 11 0,065 vorkers Acute	mg/l mg/kg mg/kg mg/kg mg/kg Chronic	systemic
Normal value in fresh Normal value in marin Normal value for fresh Normal value for mari Normal value of STP i Normal value for the fi Normal value for the to Health - Derived no-effe Route of exposure	water le water ne water sedir ne water sedir microorganis ood chain (s errestrial con ect level - D Effects on Acute	- PNEC ment diment sms secondary poiso mpartment NEL / DMEL n consumers Acute	ning) Chronic	Chronic systemic 0,5 mg/kg/d 0,87	Effects on w Acute	0,001 0,341 0,034 10 11 0,065 vorkers Acute	mg/l mg/kg mg/kg mg/kg mg/kg Chronic	systemic 4,93
Normal value in fresh Normal value in marin Normal value for fresh Normal value for marin Normal value of STP i Normal value for the fr Normal value for the tr Health - Derived no-effe Route of exposure Oral Inhalation	water le water ne water sedir ne water sedir microorganis ood chain (s errestrial con ect level - D Effects on Acute	- PNEC ment diment sms secondary poiso mpartment NEL / DMEL n consumers Acute	ning) Chronic	Chronic systemic 0,5 mg/kg/d 0,87 mg/m3	Effects on w Acute	0,001 0,341 0,034 10 11 0,065 vorkers Acute	mg/l mg/kg mg/kg mg/kg mg/kg Chronic	systemic 4,93 mg/m3
Normal value in fresh Normal value in marin Normal value for fresh Normal value for marin Normal value of STP i Normal value for the fr Normal value for the tr Health - Derived no-effe Route of exposure Oral	water le water ne water sedir ne water sedir microorganis ood chain (s errestrial con ect level - D Effects on Acute	- PNEC ment diment sms secondary poiso mpartment NEL / DMEL n consumers Acute	ning) Chronic	Chronic systemic 0,5 mg/kg/d 0,87	Effects on w Acute	0,001 0,341 0,034 10 11 0,065 vorkers Acute	mg/l mg/kg mg/kg mg/kg mg/kg Chronic	systemic 4,93

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.



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SECTION 8. Exposure controls/personal protection ... / >>

When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value	Information		
Appearance		paste			
Colour		white			
Odour		mild			
Melting point / freezing point		not available			
Initial boiling point		not available			
Flammability		not available			
Lower explosive limit		not available			
Upper explosive limit		not available			
Flash point	>	100 °C			
Auto-ignition temperature		not available			
Decomposition temperature		not available			
рН		not available	Reason for missin	g data:subs	stance/mixture is
			non-soluble	(in	water)
Kinematic viscosity		not available			
Dynamic viscosity		~ 225000 mPa.s	Temperature: 23 °	°C	
Solubility		not available			
Partition coefficient: n-octanol/water		not available			
Vapour pressure		not available			
Density and/or relative density		1,1			

not available

not applicable

9.2. Other information

Relative vapour density

Particle characteristics

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics



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Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

The following materials may react with the product: Strong oxidizing agents, Reducing agents, strong acids and bases.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Stable under normal conditions of storage and use. Protect from direct sunlight. Avoid contact with acids and oxidizing agents.

10.5. Incompatible materials

See the reactivity section.

10.6. Hazardous decomposition products

By thermal decomposition, carbon monoxide, carbon dioxide and ed other unidentified organic compounds.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:

EPOXY PHENOL RESIN
LD50 (Dermal):
LD50 (Oral):

Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

> 2000 mg/kg > 5000 mg/kg

> 2000 mg/kg

> 2000 mg/kg

EPOXY RESIN (Number average MW <= 700) LD50 (Dermal): LD50 (Oral):

@EPY 11.5.2 - SDS 1004.14



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SECTION 11. Toxicological information .../>>

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

12.1. Toxicity

EPOXY PHENOL RESIN	
LC50 - for Fish	2,54 mg/l/96h
EC50 - for Crustacea	2,55 mg/l/48h
EC50 - for Algae / Aquatic Plants	1,8 mg/l/72h
Chronic NOEC for Crustacea	0,3 mg/l
EPOXY RESIN (Number average MW <= 700) LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea Chronic NOEC for Algae / Aquatic Plants	2 mg/l/96h 1,8 mg/l/48h 11 mg/l/72h 0,3 mg/l 4,2 mg/l

12.2. Persistence and degradability

EPOXY PHENOL RESIN NOT rapidly degradable

SECTION 12. Ecological information ... / >>

EPOXY RESIN (Number average MW <= 700) NOT rapidly degradable

12.3. Bioaccumulative potential

EPOXY RESIN (Number average MW <= 700) BCF

31

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Waste class 08 04 09* stickers and sealed sealing, containing organic solvents or other dangerous substances.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IA	TA: 3082
ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to ADR provisions.
IMDG:	In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to IMDG Code provisions.
IATA:	In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.
14.2. UN proper shippi	ng name

 ADR / RID:
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700); FORMALDEHYDE, OLIGOMERIC REACTION PRODUCT WITH 1-CHLORO, 2,3-EPOXYPROPANE AND PHENOL)

 IMDG:
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700); FORMALDEHYDE, OLIGOMERIC REACTION PRODUCT WITH 1-CHLORO, 2,3-EPOXYPROPANE AND PHENOL)

 IATA:
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700); FORMALDEHYDE, OLIGOMERIC REACTION PRODUCT WITH 1-CHLORO, 2,3-EPOXYPROPANE AND PHENOL)

 IATA:
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW ≤ 700); FORMALDEHYDE, OLIGOMERIC REACTION PRODUCT WITH 1-CHLORO, 2,3-EPOXYPROPANE AND PHENOL)

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SECTION 14. Tra	nsport informa	tion / >>					
14.3. Transport haz	ard class(es)						
ADR / RID:	Class: 9	Label: 9					
				9			
IMDG:	Class: 9	Label: 9					
IATA:	Class: 9	Label: 9					
14.4. Packing grou	p						
ADR / RID, IMDG	6, IATA: II	I					
14.5. Environmenta	Il hazards			•			
ADR / RID:	Environmen	tally Hazardous					
IMDG:	Marine Pollu	tant					
IATA:	Environmen	tally Hazardous					
14.6. Special preca	utions for user						
ADR / RID:		IIN - Kemler: 90 Special provision: -	Limited Quantities: 5 L	Tunnel restriction code: (-)			
IMDG: IATA:	E C P	SACE PROVISION: P SMS: F-A, S-F Cargo: Passengers: Special provision:	Limited Quantities: 5 L Maximum quantity: 450 L Maximum quantity: 450 L A97, A158, A197, A215	Packaging instructions: 964 Packaging instructions: 964			
14.7. Maritime trans	sport in bulk acc	ording to IMO instru	ments				
Information not re	elevant						
SECTION 15.	Regulatory i	nformation					
			lation specific for the substance or	mixture			
Seveso Category	- Directive 2012/	18/EU:	E2				
Product		or contained substanc	es pursuant to Annex XVII to EC Reg	ulation 1907/2006			
Point	3						
Regulation (EU) 2 not applicable	2019/1148 - on the	e marketing and use o	f explosives precursors				
Substances in Ca On the basis of a			ain any SVHC in percentage ≥ than 0,	.1%.			
Substances subject to authorisation (Annex XIV REACH) None							
Substances subje None	ect to exportation	reporting pursuant to F	Regulation (EU) 649/2012:				

SECTION 15. Regulatory information ... / >>

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 2: Hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament



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SECTION 16. Other information ... / >>

- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified: 01.

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