	DESIVI SRL	Revision nr. 1
	DESIVISKE	Dated 27/09/2016
	MASTICE EPOSSIDICO	Printed on 27/09/2016
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	Safety data sheet	
	Callery data sheet	
SECTION 1. Identification of the sub	stance/mixture and of the company/	/undertaking
1.1. Product identifier		
Code:	M5104	
Product name	EPOKITT - MASTICE EPOSSIDICO	
<b>1.2. Relevant identified uses of the substance or n</b> Intended use	nixture and uses advised against Mastic for marble, Professional use only.	
Uses advised against: no one in particular		
1.3. Details of the supplier of the safety data sheet		
Name Full address District and Country	ILPA ADESIVI SRL Via Ferorelli, 4 70132 BARI (BARI) ITALIA	
	Tel. + 39 0805383837	
	Fax + 39 0805377807	
e-mail address of the competent person		
responsible for the Safety Data Sheet	aborricelli@ilpa.it	
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to	+ 39 3355405598 (Technical support - 8,00 - 17,0 zone) Safety Executive (HSE) Chemicals Regulation I Road, Bootle, Merseyside. L20 7HS. Phone: +44 151 9513317	
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 EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
	H315 H317

2.2. Label elements.

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Hazard labelling pursu	uant to EC Regulation 1272	2008 (CLP) and subs	equent amendments and suppleme	nte
			equent amenaments and suppleme	
Hazard pictograms:				
Signal words:	Warning			
Hazard statements:				
11240		inni4-4i		
H319 H315	Causes serious eye Causes skin irritatior	า.		
H317 H412	May cause an allerg Harmful to aquatic lif	ic skin reaction. fe with long lasting effe	ects.	
EUH205	Contains epoxy cons	stituents. May produce	an allergic reaction.	
Precautionary statem	ents:			
P201	Obtain special instru	ctions before use.		
P210 P260	Keep away from hea		s, open flames and other ignition so	urces. No smoking.
P280	Wear protective glov	ves / eye protection / fa	ace protection.	
P308+P313 P370+P378		rned: Get medical adv arbon dioxide, foam, p	vice / attention. bowder and water spray to extinguis	h.
Contains:	1,4-bis(2,3-Epoxypro	PANE TRIGLYCIDYL ppoxy)-butane	ETHER	
	REACTION PRODU	CT: BISPHENOL A-(E	EPICHLORHYDRIN)	
		CT: BISPHENOL F-(E	PICHLORHYDRIN)	
	1,6 Hexanediol Digly	cidyl Ether		
2.3. Other hazards				
	ble deter the way don't done w			407
On the basis of availa	bie data, the product does r		vPvB in percentage greater than 0	, 1 %.
SECTION 3. C	Composition/inform	ation on ingred	lients.	
3.1. Substances.				
Information not releva	ant.			
3.2. Mixtures.				
Contains:				
Identification.		Conc. %.	Classification 1272/2008	
REACTION PRODU	JCT: BISPHENOL A-		(CLP).	
(EPICHLORHYDRIN CAS. 25068-38-6		13,5 - 15	Eye Irrit. 2 H319, Skin Irrit. 2	
0A3. 2000-30-0		13,3 - 15	H315, Skin Sens. 1 H317,	

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		Aquatic Chronic 2 H411
EC. 500-033-5		
INDEX. 603-074-00-8		
Reg. no. 01-2119456619-26		
1,4-bis(2,3-Epoxypropoxy)-butane		
CAS. 2425-79-8	4,5 - 5	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412
EC. 219-371-7		
INDEX. 603-072-00-7		
Reg. no. 01-2119494060-45		
REACTION PRODUCT: BISPHENOL F- (EPICHLORHYDRIN) CAS. 28064-14-4	4 - 4,5	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC. 500-006-8		
INDEX		
Reg. no. 01-2119454392-40		
TRIMETHYLOLPROPANE TRIGLYCIDYL ETHER		
CAS. 30499-70-8	3 - 3,5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412
EC. 608-489-8		
INDEX		
1,6 Hexanediol Diglycidyl Ether		
CAS. 16096-31-4	2 - 2,5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412
EC. 240-260-4		
INDEX		
Reg. no. 01-2119463471-41		
Note: Upper limit is not included into the range.		

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.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS: for PPE (personal protection equipment) required for first aid refer to section 8.2 of this safety data sheet.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

## **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 CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 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.

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#### 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. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections.

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).

No use other than specified in Section 1.2 of this safety data sheet.

## SECTION 8. Exposure controls/personal protection.

#### 8.1. Control parameters.

#### **REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)** Predicted no-effect concentration - PNEC. Normal value in fresh water 0,006 mg/l Normal value in marine water 0,001 mg/l Normal value for fresh water sediment 0,996 mg/kg/d Normal value for marine water sediment mg/kg/d 0,018 Normal value for water, intermittent release ma/l Normal value of STP microorganisms ma/l 10 0,196 Normal value for the terrestrial compartment mg/kg/d Health - Derived no-effect level - DNEL / DMEL Effects on Effects on workers consumers. Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic Oral. VND 0,75 mg/kg VND 0,75 mg/kg bw/d bw/d NPI NPI NPI NPI Inhalation. VND VND 12,25 mg/m3 12,25 mg/m3 3,571 mg/kg VND 3,571 mg/kg NPI VND NPI 8,33 mg/kg Skin. 8,33 mg/kg bw/d bw/d bw/d bw/d

#### 1,4-bis(2,3-Epoxypropoxy)-butane

Predicted no-effect concentration - PNEC.

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Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water Normal value of STP microorga	sediment anisms			0,024 0,002 0,084 0,008 100			ʻl /kg/d /kg/d	
Health - Derived no-effect	t <b>level - DNEL / D</b> Effects on consumers.	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	0,33 mg/kg bw/d				
Inhalation. Skin.	VND VND	VND VND	VND VND	1,15 mg/m3 3,33 mg/kg bw/d	VND VND	VND VND	VND VND	4,7 mg/m3 6,66 mg/kg bw/d
REACTION PRODUCT: BI Predicted no-effect concentration		CHLORHYDRIN	1)					
Normal value in fresh water				0.003		mg	1	
Normal value in marine water				-,- 30				
Normal value for fresh water se Normal value for marine water Normal value of STP microorga	sediment anisms			0,294 0,029 10			/kg/d /kg/d /l	
Health - Derived no-effect	Effects on				Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
TRIMETHYLOLPROPANE		THER					VND	266,6 mg/kg bw/d
Skin. TRIMETHYLOLPROPANE Predicted no-effect concentration Normal value in fresh water Normal value in marine water	on - PNEC.	THER		0,004		, mg.		
TRIMETHYLOLPROPANE Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water set Normal value for marine water i Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial	on - PNEC. ediment sediment ttent release nisms compartment			0,004 0,02 0,002 0,037 16,8 0,002		mg. mg. mg. mg.	1 /kg/d /kg/d /	
TRIMETHYLOLPROPANE Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water set Normal value for marine water i Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial	on - PNEC. ediment sediment ttent release anisms compartment : <b>level - DNEL / D</b> I Effects on			0,02 0,002 0,037 16,8	Effects on	mg. mg. mg. mg.	1 /kg/d /kg/d 1 1	
TRIMETHYLOLPROPANE Predicted no-effect concentration Normal value in fresh water Normal value for fresh water set Normal value for marine water set Normal value for water, intermit Normal value of STP microorga Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect	ediment sediment ttent release nisms compartment : <b>level - DNEL / D</b> Effects on consumers. Acute local	MEL Acute systemic	Chronic local	0,02 0,002 0,037 16,8 0,002 Chronic systemic	Effects on workers Acute local	mg. mg. mg. mg.	1 /kg/d /kg/d 1 1	
TRIMETHYLOLPROPANE Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water i Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral.	ediment sediment ttent release anisms compartment : <b>level - DNEL / D</b> I Effects on consumers. Acute local VND	MEL Acute systemic NPI	VND	0,02 0,002 0,037 16,8 0,002 Chronic systemic NPI	workers Acute local	mg, mg, mg, mg, mg, mg,	// /kg/d /l /kg/d /kg/d Chronic local	bw/d Chronic systemic
TRIMETHYLOLPROPANE Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for water, intermit Normal value for water, intermit Normal value of STP microorga	ediment sediment ttent release nisms compartment : <b>level - DNEL / D</b> Effects on consumers. Acute local	MEL Acute systemic		0,02 0,002 0,037 16,8 0,002 Chronic systemic	workers	mg, mg, mg, mg, Mg,	1 /kg/d /kg/d 1 1 /kg/d	bw/d Chronic
TRIMETHYLOLPROPANE Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water si Normal value for water, intermit Normal value for water, intermit Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral. Inhalation.	ediment sediment ttent release anisms compartment : <b>level - DNEL / DI</b> Effects on consumers. Acute local VND NPI NPI NPI	MEL Acute systemic NPI NPI	VND NPI	0,02 0,002 0,037 16,8 0,002 Chronic systemic NPI NPI	workers Acute local VND	mg. mg. mg. mg. mg. Mg. mg. Mg. Mg.	/l /kg/d /l /kg/d /kg/d Chronic local VND	bw/d Chronic systemic 1,17 mg/m3 0,67 mg/kg
TRIMETHYLOLPROPANE Predicted no-effect concentratio Normal value in fresh water Normal value for fresh water se Normal value for marine water Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral. Inhalation. Skin.  1,6 Hexanediol Diglycidyl Predicted no-effect concentratio Normal value in fresh water se Normal value for marine water Normal value for marine water se Normal value for water, intermit Normal value for the terrestrial	ediment sediment ttent release unisms compartment : <b>level - DNEL / D</b> Effects on consumers. Acute local VND NPI NPI Ether on - PNEC.	MEL Acute systemic NPI NPI NPI	VND NPI	0,02 0,002 0,037 16,8 0,002 Chronic systemic NPI NPI	workers Acute local VND	mg, mg, mg, mg, mg, mg, mg, mg, mg, mg,	1 /kg/d /kg/d 1 /kg/d Chronic local VND VND	bw/d Chronic systemic 1,17 mg/m3 0,67 mg/kg
TRIMETHYLOLPROPANE Predicted no-effect concentratio Normal value in fresh water Normal value for fresh water se Normal value for marine water Normal value for water, intermit Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral. Inhalation. Skin.  1,6 Hexanediol Diglycidyl Predicted no-effect concentratio Normal value in fresh water se Normal value in fresh water Normal value for fresh water se Normal value for marine water Normal value for setter setter Normal value for marine water se Normal value for water, intermit Normal value for stater setter Normal value for setter, intermit Normal value for the terrestrial	ediment sediment sediment ttent release compartment : <b>level - DNEL / D</b> Effects on consumers. Acute local VND NPI NPI Ether on - PNEC.	MEL Acute systemic NPI NPI NPI	VND NPI	0,02 0,002 0,037 16,8 0,002 Chronic systemic NPI NPI NPI NPI NPI 0,011 0,028 0,012 0,015 1	workers Acute local	mg, mg, mg, mg, mg, mg, mg, mg, mg, mg,	1 /kg/d /l /kg/d /l /kg/d VND VND VND	bw/d Chronic systemic 1,17 mg/m3 0,67 mg/kg
TRIMETHYLOLPROPANE Predicted no-effect concentration Normal value in fresh water Normal value for fresh water see Normal value for marine water in Normal value for water, intermit Normal value for water, intermit Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral. Inhalation. Skin. <b>1,6 Hexanediol Diglycidyl</b> Predicted no-effect concentration Normal value in fresh water Normal value in marine water se Normal value for the terrestrial Health - Derived no-effect	ediment sediment ttent release unisms compartment : <b>Ievel - DNEL / DI</b> Effects on consumers. Acute local VND NPI NPI Ether on - PNEC. Ether on - PNEC.	MEL Acute systemic NPI NPI NPI	VND NPI NPI	0,02 0,002 0,037 16,8 0,002 Chronic systemic NPI NPI NPI NPI NPI 0,011 0,028 0,015 1 0,223 Chronic systemic	workers Acute local VND	mg, mg, mg, mg, mg, mg, mg, mg, mg, mg,	1 /kg/d /l /kg/d /l /kg/d VND VND VND	bw/d Chronic systemic 1,17 mg/m3 0,67 mg/kg
TRIMETHYLOLPROPANE Predicted no-effect concentration Normal value in fresh water Normal value for fresh water se Normal value for marine water Normal value for water, intermit Normal value of STP microorga Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral. Inhalation. Skin. 1,6 Hexanediol Diglycidyl Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water se Normal value for marine water se Normal value for marine marine Normal value for marine mater Normal value for marine mater Normal value for marine mater Normal value for marine mater se Normal value for marine mater se Normal value for marine mater set Normal value for marine water set	ediment sediment ttent release anisms compartment : <b>level - DNEL / D</b> I Effects on consumers. Acute local VND NPI NPI Ether on - PNEC. ediment sediment ttent release anisms compartment : <b>level - DNEL / D</b> I Effects on consumers.	MEL Acute systemic NPI NPI NPI	VND NPI NPI	0,02 0,002 0,037 16,8 0,002 Chronic systemic NPI NPI NPI NPI 0,011 0,283 0,015 1 0,223 Chronic	workers Acute local VND VND	Mg, m	1 (kg/d (kg/d 1 1 kg/d Chronic local VND VND VND 1 1 1 1 1 1 1 1 1 1 1 1 1	bw/d Chronic systemic 1,17 mg/m3 0,67 mg/kg bw/d

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Legend:

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 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. 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 (see standard EN 374).

The following should be considered when choosing work glove material: 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 Directive 89/686/EEC 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 B 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.

Appearance Colour Odour Odour threshold. pH. Melting point / freezing point. Initial boiling point. Boiling range. Flash point. Evaporation rate Flammability (solid, gas) Lower inflammability limit.	pasty white mild Not available. Not applicable. -21,5°C (ECHA site, 1,4-BIS(2,3-EPOSSIPROPOSSI)-BUTANO) 266°C (0110 ICSC, 1,4-BIS(2,3-EPOSSIPROPOSSI)-BUTANO) Not available. > 60 °C. 0,012 – 0,018 Pas at 25°C (CID 17046 PUBCHEM, 1,4-BIS(2,3-EPOSSIPROPOSSI)-BUTANO) not applicable Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.

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Upper explosive limit.	Not available.
Vapour pressure.	1,3 kPa at 20°C (0110 ICSC, 1,4-BIS(2,3-EPOSSIPROPOSSI)-BUTANO)
Vapour density	7,0 (air=1) (0110 ICSC, 1,4-BIS(2,3-EPOSSIPROPOSSI)-BUTANO)
Relative density.	1,850 Kg/l
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Log Pow -0,269 (ECHA site, 1,4-BIS(2,3-EPOSSIPROPOSSI)-BUTANO)
Auto-ignition temperature.	260°C at 98,4 kPa (ECHA site, 1,4-BIS(2,3-EPOSSIPROPOSSI)-BUTANO)
Decomposition temperature.	Not available.
Viscosity	2200 ± 100 Pas
Explosive properties	Product does not present an explosion hazard.
Oxidising properties	not applicable
9.2. Other information.	
5.2. Other information.	
VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0

### **SECTION 10. Stability and reactivity.**

#### 10.1. Reactivity.

VOC (volatile carbon) :

There are no particular risks of reaction with other substances in normal conditions of use.

#### 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.

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials.

Information not available.

#### 10.6. Hazardous decomposition products.

Information not available.

## **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

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hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

This product contains epoxy resins. Producer's specifications are as follows: Because of epoxy-product properties and according to the toxicological data available for similar products, this preparation may sensitize and irritate the skin and the respiratory system. It contains epoxy components at low molecular weights, which may irritate eyes, mucosas and skin. Frequent contact with skin may cause irritation and sensitization phenomena. Sensitization reactions may also be caused by other epoxy components (cross-sensitization). Avoid contact with skin and exposure to vapours and aerosols.

#### 11.1. Information on toxicological effects.

#### Data refers to the mix:

ACUTE TOXICITY: No data available SKIN CORROSION/IRRITATION:Causes skin irritation (section 3.2 of the safety data sheet) SERIOUS EYE DAMAGE/IRRITATION:Causes serious eye irritation (section 3.2 of the safety data sheet) RESPIRATORY OR SKIN SENSITISATION: Contains epoxy constituents. May cause an allergic skin reaction. (section 3.2 of the safety data sheet) GERM CELL MUTAGENICITY: No data available CARCINOGENICITY: No data available REPRODUCTIVE TOXICITY: No data available STOT-SINGLE EXPOSURE: No data available STOT-REPEATED EXPOSURE: No data available ASPIRATION HAZARD: not relevant to viscosity values (section 9 of the safety data sheet)

#### Data relating to substances hazardous mixture:

#### TRIMETHYLOLPROPANE TRIGLYCIDYL ETHER ACUTE TOXICITY:

LD50 (Oral).3398 mg/kg rat, equivalent or similar to (OECD Guideline 401) LD50 (Dermal).> 3170 mg/kg rat, equivalent or similar to (OECD Guideline 402) SKIN CORROSION/IRRITATION: Causes skin irritation. (from SDS supplier) SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye irritation. (from SDS supplier) RESPIRATORY OR SKIN SENSITISATION: May cause an allergic skin reaction. (Rif. SDS fornitore).

#### 1,4-BIS(2,3-EPOXYPROPOXY)-BUTANE

ACUTE TOXICITY: LD50 (Oral).1163 mg/kg rat (OECD Guideline 401) LD50 (Dermal).> 1030 mg/kg rabbit, (from SDS supplier) Inhalation toxicity: harmful if inhaled (Annex VI, REGULATION (EC) No 1272/2008) SKIN CORROSION/IRRITATION: Causes skin irritation. (Annex VI, REGULATION (EC) No 1272/2008) SERIOUS EYE DAMAGE/IRRITATION: Causes eyes irritationi, rabbit (OECD Guideline 405) RESPIRATORY OR SKIN SENSITISATION: Causes skin irritation, guinea pig (OECD Guideline 406).

## REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

ACUTE TOXICITY:

LD50 (Oral).> 2000 mg/kg rat, according to (OECD Guideline 420) LD50 (Dermal).> 2000 mg/kg rat, according to (OECD Guideline 402) SKIN CORROSION/IRRITATION: Causes skin irritation, rabbit (OECD Guideline 404, GLP). SERIOUS EYE DAMAGE/IRRITATION: Causes eye damage. (Annex VI, REGULATION (EC) No 1272/2008) RESPIRATORY OR SKIN SENSITISATION: skin sensitizing, mouse (OECD Guideline 429, GLP).

#### REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)

ACUTE TOXICITY: LD50 (Oral).> 5000 mg/kg rat, equivalent or similar to (OECD Guideline 401) LD50 (Dermal).> 2000 mg/kg rat, equivalent or similar to (OECD Guideline 4029 SKIN CORROSION/IRRITATION: Skin irritating, rabbit (OECD Guideline 404, GLP) RESPIRATORY OR SKIN SENSITISATION: skin sensitizer, mouse (OECD Guideline 429, GLP).

#### 1,6-HEXANEDIOL DIGLYCIDYL ETHER

SKIN CORROSION/IRRITATION: Causes skin irritation. (rabbit, Guidelines of the US EPA, Federal Register, Vol. 43, No. 163, August 22, 1978) SERIOUS EYE DAMAGE/IRRITATION: Causes eye irritation. (Rabbit, Equivalente o similare a OECD Guideline 405)

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RESPIRATORY OR SKIN SENSITISATION: skin sensitizer (Mouse, OECD Guideline 429, GLP).

## **SECTION 12. Ecological information.**

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

12.1. Toxicity.

TRIMETHYLOLPROPANE TRIGLYCIDYL	
LC50 - for Fish.	75 mg/l/96h Cyprinus carpio (OECD Guideline 203)
EC50 - for Crustacea.	3,7 mg/l/48h Daphnia magna (OECD Guideline 202, GLP)
EC50 - for Algae / Aquatic Plants.	9 mg/l/72h Pseudokirchnerella subcapitata (OECD Guideline 201, GLP)
Chronic NOEC for Crustacea.	2 mg/l Daphnia magna (OECD Guideline 202, GLP)
Chronic NOEC for Algae / Aquatic Plants.	2,5 mg/l Pseudokirchnerella subcapitata (OECD Guideline 201, GLP)
1,4-bis(2,3-Epoxypropoxy)-butane	
LC50 - for Fish.	19,8 mg/l/96h Brachydanio rerio (OECD Guideline 203) SDS supplier
EC50 - for Crustacea.	75 mg/l/48h 24 h, Daphnia magna (OECD Guideline 202) SDS supplier
EC50 - for Algae / Aquatic Plants.	110 mg/I/72h endpoint EL50, Pseudokirchnerella subcapitata (OECD Guideline 201)
REACTION PRODUCT: BISPHENOL A- (EPICHLORHYDRIN)	
LC50 - for Fish.	1,2 mg/l/96h Oncorhynchus mykiss (Equivalent or similar to EPA-660/3-75-009)
EC50 - for Crustacea.	2,7 mg/l/48h Daphnia magna (Equivalent or similar to EPA-660/3-75-009)
EC50 - for Algae / Aquatic Plants.	9,4 mg/l/72h Scenedesmus capricornutum (Equivalent or similar to EPA-660/3-75-009)
REACTION PRODUCT: BISPHENOL F- (EPICHLORHYDRIN) LC50 - for Fish.	172 mg/l CL50, Leuciscus idus (Leucisco dorato), Prova statica, 48 h,
EC50 - for Algae / Aquatic Plants.	> 1,8 mg/l/72h Pseudokirchneriella subcapitata, equivalent or similar to (OECD Guideline 201)
Chronic NOEC for Crustacea.	0,3 mg/l Daphnia magna, 21d equivalent or similar to (OECD Guideline 211)
1,6 Hexanediol Diglycidyl Ether	
LC50 - for Fish.	30 mg/l/96h Oncorhynchus mykiss, Prova semistatica (Rif. SDS DOW)
EC50 - for Crustacea.	47 mg/l/48h Test effettuato a 24h, Daphnia Magna, prova statica, immobilizzazione, (Rif. SDS DOW)
EC50 - for Algae / Aquatic Plants.	23,1 mg/l/72h Selenastrum capricornutum, (from ECHA site)
12.2. Persistence and degradability.	

1,6 HEXANEDIOL DIGLYCIDYL ETHER Biodegradation testing: biodegradation: 47% Exposure time: 28 d Metod: OECD 301D.

TRIMETHYLOLPROPANE TRIGLYCIDYL ETHER NOT rapidly biodegradable.

OECD Guideline 301 B

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	REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN) Solubility in water. NOT rapidly biodegradable.	mg/l 0,1 - 100
	REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN) NOT rapidly biodegradable.	
	1,6 Hexanediol Diglycidyl Ether NOT rapidly biodegradable.	
	12.3. Bioaccumulative potential.	
	REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)	
	Partition coefficient: n-octanol/water.	> 2.918
	BCF.	31
	REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)	
	Partition coefficient: n-octanol/water.	3,6 Valore stimato (Rif. SDS DOW)
	1,6 Hexanediol Diglycidyl Ether	
	BCF.	822 (OECD 107)
	12.4. Mobility in soil.	
	1,6 HEXANEDIOL DIGLYCIDYL ETHER Partition coefficient organic carbon / water in the soil (Koc) = 962 (OECD 121).	
	REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)	
	Partition coefficient: soil/water.	2,65
	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 greater than 0,1%.
	12.6. Other adverse effects.	
	Information not available.	
	SECTION 13. Disposal considerations.	
- 1		

#### 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

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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.

## **SECTION 14. Transport information.**

#### 14.1. UN number.

ADR / RID, IMDG, IATA: 3077

#### 14.2. UN proper shipping name.

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

#### 14.3. Transport hazard class(es).

ADR / RID:	Class: 9	Label: 9	
IMDG:	Class: 9	Label: 9	
IATA:	Class: 9	Label: 9	
	01000.0		

#### 14.4. Packing group.

ADR / RID, IMDG, III IATA:

#### 14.5. Environmental hazards.

ADR / RID:	Environmentally Hazardous.	
IMDG:	Marine Pollutant.	
IATA:	Environmentally Hazardous.	

#### 14.6. Special precautions for user.

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 kg	Tunnel restriction code: (E)
	Special Provision: -		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 kg	
IATA:	Cargo:	Maximum quantity: 400 Kg	Packaging instructions: 956
	Pass.:	Maximum quantity: 400 Kg	Packaging instructions: 956
	Special Instructions:	A97, A158, A179, A197	

SECTION 15. Regulatory information.         15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.         Seveso category.       None.         Settictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.         Point       3. Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex 10 for Regulation (C) Not 172 2008: <ul> <li>(a) hazard classes 2.1 to 2.4 .2 6 and 2.7.2 8 types A and B. 2.9.2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 (per 4 to F.</li> <li>(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects of the tran narcotio effects, 3.9 and 3.10;</li> <li>(c) hazard classes 4.1;</li> <li>(d) hazard classes 5.1.</li> </ul> <li>Substances in Candidate List (Art. 59 REACH).</li> <li>None.</li> <li>Substances subject to authorisarion (Annex XIV REACH).</li> <li>None.</li> <li>Substances subject to the Rotterdam Convention:</li> <li>None.</li> <li>Substances subject to the Stockholm Convention:</li> <li>None.</li>	ILPA ADESIVI SRL		Revision nr. 1		
WB 104 - EPOKITT - WAS TICE EPOSSIDICO         Page 1. 335           4.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.			Dated 27/09/2016		
4.7. Transport in bulk according to Annex II of MARPOL7376 and the IBC Code.         Information not relevant.         SECTION 15. Regulatory information.         15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.         Severa category.         None.         Restrictions relating to the product or contained substances or mixtures fulfiling the criteria for any of the following hazard classes or categories set out in Annex 1 to Regulation (EC) No 1272/2008.         Product.       2. Liquid substances or mixtures fulfiling the criteria for any of the following hazard classes or categories set out in Annex 1 to Regulation (EC) No 1272/2008.         Product.       0 (a) hazard classes 2.1 to 2.4.2 and 2.7.4 at types A and B, 2.9.2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 gypes A and B, 2.9.3 and 3.10.         (i) hazard classes 3.1 to 3.3.7 adverse effects on sexual function and fertility or on development. 3.8 effects on sexual function and fertility or on development. 3.8 effects on sexual function and fertility or on development. 3.8 effects on sexual function and fertility or on development. 3.8 effects on sexual function and fertility or on development. 3.8 effects on sexual function and fertility or on development. 3.8 effects on sexual function and fertility or on development. 3.8 effects on sexual function and fertility or on development.         Substances subject to a subord from the tot (EC) Reg. 649/2012:         None.          Substances subject to the Rott	M5104 –	EPOKITT - MASTICE EPOSSIDICO			
Information not relevant.  SECTION 15. Regulatory information.  15.1. Safety, health and environmental regulational/egislation specific for the substance or mixture.  Seveso category. None.  Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.  Product Prom  Substances relating to the product or contained substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex / to Regulation (EC) No 1272/2008. Destroportes 1 and 2, 2, 15 types A to F, 2, 8 types A and B, 2, 9, 2, 10, 2, 12, 2, 13 categories 1 and 2, 2, 14 (b) hazard classes 5 1, 03, 3, 7 devices effects on sexual function and fertility or on development, 3, 8 effects other than narrootic effects, 3, 9 and 3, 10; (c) hazard classes 5, 1, 03, 3, 7 devices effects on sexual function and fertility or on development, 3, 8 effects other than narrootic effects, 3, 9 and 3, 10; (c) hazard classes 5, 1, 03, 3, 7 devices effects on sexual function and fertility or on development, 3, 8 effects other than narrootic effects, 3, 9 and 3, 10; (c) hazard classes 5, 1, 03, 3, 7 devices effects on sexual function and fertility or on development, 3, 8 effects other than narrootic effects, 3, 9 and 3, 10; (c) hazard classes 5, 1, 0, 03, 7, 2, 6, 9902, 02, 02, 02, 02, 02, 02, 02, 02, 02,			Page n. 13/15		
Information not relevant.  SECTION 15. Regulatory information.  15.1. Safety, health and environmental regulational/ogislation specific for the substance or mixture.  Seveso category. None.  Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.  Product Prom  Substances relating to the product or contained substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex / to Regulation (EC) No 1722 2008. Destriporties 1 and 2, 2, 15 types A to F, 2, 8 types A and B, 2, 9, 2, 10, 2, 12, 2, 13 categories 1 and 2, 2, 14 (b) hazard classes 3 to 3, 3, 7 devices effects on sexual function and fertility or on development, 38 effects other than nancotic effects, 3, 9 and 3, 10; (c) hazard class 4, 1; (d) hazard class 5, 1.  Substances subject to exportation reporting pursuant to [EC] Reg. 549/2012; None.  Substances subject to the Notterdam Convention:  None.  Substances subject to the Notterdam Convention:  Substances subject to the Notterdam Convention:  None.  Substances Su					
Information not relevant.  SECTION 15. Regulatory information.  15.1. Safety, health and environmental regulational/ogislation specific for the substance or mixture.  Seveso category. None.  Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.  Product Prom  Substances relating to the product or contained substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex / to Regulation (EC) No 1722 2008. Destriporties 1 and 2, 2, 15 types A to F, 2, 8 types A and B, 2, 9, 2, 10, 2, 12, 2, 13 categories 1 and 2, 2, 14 (b) hazard classes 3 to 3, 3, 7 devices effects on sexual function and fertility or on development, 38 effects other than nancotic effects, 3, 9 and 3, 10; (c) hazard class 4, 1; (d) hazard class 5, 1.  Substances subject to exportation reporting pursuant to [EC] Reg. 549/2012; None.  Substances subject to the Notterdam Convention:  None.  Substances subject to the Notterdam Convention:  Substances subject to the Notterdam Convention:  None.  Substances Su	14.7. Transport in bulk according to	Annex II of MARPOL73/78 and the IBC Code.			
SECTION 15. Regulatory information.         15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.         Seveso category.       None.         Settictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.         Point       3. Liquid substances or mixtures fulfilling the citeria for any of the following hazard classes or categories a et out in Annex 10 for Regulation (CD) No 1272/2006: (0) hazard classes 2.1 to 2.4 2.6 and 2.7.2 8 types A and B. 2.9.2.10.2.12, 2.13 categories 1 and 2, 2.14 (adaption 1907/2006); (1) hazard classes 3.1 to 3.6.3.7 adverse effects on sexual function and fertility or on development, 3.8 effects of the tran narcotio effects; 3.9 and 3.10; (1) hazard classes 5.1.         Substances in Candidate List (Art. 59 REACH).       None.         Substances subject to authorisarion (Annex XIV REACH).       None.         Substances subject to the Rotterdam Convention:       None.         Substances subject to the Stockholm Convention:       None.         Substances subject to the Rotterdam Convention:       None.         None.       None.         Substances subject to the Stockholm Convention:       None.         None.       None.         Substanc	<b>.</b>				
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.         Seveso category.       None.         Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.         Product.       3. Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex 1 to Regulation (EO) No 1272/2008: <ul> <li>(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2.14 categories 1 and 2.14 categories 1 and 2.14 categories 1 and 2.15 and 3.10;         Bubstances in Candidate List (Art. 59 REACH).       Substances subject to authorisarion (Annex XIV REACH).         None.       Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012;         None.       Substances subject to the Rotterdam Convention;         None.       Substances subject to the Stockholm Convention;         None.       Substances subject to the Stockholm Convention;         None.       Substances subject to the Stockholm Convention;</li></ul>	Information not relevant.				
Seveso category.       None.         Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2005.         Product.       3. Liquid substances or mixtures fulfilling the criterie for any of the following hazard classes or categories set our in Annex it to Regulation (EC) No 1272/2008:	SECTION 15. Regulatory information.				
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006. Product. Point 3. Liquid substances or mixtures fulfiling the criteria for any of the following hazard classes or categories set out in Annex 1 to Regulation (EC) No 1272/2008: (a) hazard classes 21 to 2.4, 2 6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 (c) hazard classes 21 to 2.4, 2 6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 (c) hazard classes 4.1; (d) hazard classes 4.1; (d) hazard classes 5.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narootic effects, 3.9 and 3.10; (e) hazard classes 5.1. Substances in Candidate List (Art. 59 REACH). None. Substances subject to authorisation (Annex XIV REACH). None. Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012; None. Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None. None. None. None. None. None. None	15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.				
Product.         Point       3. Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex 1 to Regulation (EC) No 1272/2008:         (a) hazard classes 2.1 to 2.4, 2.6 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;         (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcolic effects, 3.9 and 3.10;         (c) hazard class 5.1         Substances in Candidate List (Art. 59 REACH).         None.         Substances subject to authorisation (Annex XIV REACH).         None.         Substances subject to the Rotterdam Convention;         None.         Substances subject to the Stockholm Convention;         None.         Substances subject to the Stockholm Convention;         None.         Substances subject to the Stockholm Convention;         None.	Seveso category.	None.			
Point       3. Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex It to Regulation (EC) No 1727/2008;         (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;         (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;         (c) hazard class 4.1;         (d) hazard class 4.1;         (d) hazard class 5.1.         Substances in Candidate List (Art. 59 REACH).         None.         Substances subject to authorisarion (Annex XIV REACH).         None.         Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012;         None.         Substances subject to the Rotterdam Convention;         None.         Substances subject to the Stockholm Convention;         None.         Substances subject to the Stockholm Convention;         None.         Substances subject to the Stockholm Convention;         None.	Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.				
out in Annex / to Regulation (EC) No 12 <sup>7</sup> /2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. Substances in Candidate List (Art, 59 REACH). None. Substances subject to authorisarion (Annex XIV REACH). None. Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None. Substances subject to the Rotterdam Convention: None. Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None.	Product.				
(a) hazard classes 2.1 to 2.4.2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.15 (pactor) and classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard classes 4.1; (d) hazard class 4.1; (d) hazard class 5.1.	Point		following hazard classes or categories set		
(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.		(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2	2.10, 2.12, 2.13 categories 1 and 2, 2.14		
(c) hazard class 4.1; (d) hazard class 5.1.		(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function	n and fertility or on development, 3.8		
Substances in Candidate List (Art. 59 REACH).  None.  Substances subject to authorisarion (Annex XIV REACH).  None.  Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:  None.  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		(c) hazard class 4.1;			
None. Substances subject to authorisarion (Annex XIV REACH). None. Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None. Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None. Healthcare controls. Norkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the		(d) hazard class 5.1.			
None. Substances subject to authorisarion (Annex XIV REACH). None. Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None. Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None. Healthcare controls. Norkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the	Substances in Candidate List (Art. 59 F	REACH).			
Substances subject to authorisarion (Annex XIV REACH). None. Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None. Substances subject to the Rotterdam Convention: Substances subject to the Rotterdam Convention: None. Healthcare controls. Norkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the	None.				
None. Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None. Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None. Healthcare controls. Norkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the					
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None. Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None. Healthcare controls. Norkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the		nnex XIV REACH).			
None. Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None. Healthcare controls. Norkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the	None.				
Substances subject to the Rotterdam Convention: None. Substances subject to the Stockholm Convention: None. Healthcare controls. Norkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the	Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:				
None. Substances subject to the Stockholm Convention: None. Healthcare controls. Norkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the	None.				
Substances subject to the Stockholm Convention: None. <u>Healthcare controls.</u> Norkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the	Substances subject to the Rotterdam Convention:				
None. <u>Healthcare controls.</u> Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the	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	Substances subject to the Stockholm Convention:				
Norkers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the	None.				
Norkers 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.	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.				
Product not intended for uses provided for by Dir. 2004/42/CE.					
15.2. Chemical safety assessment.					

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No chemical safety assessment has been processed for the mixture and the substances it contains.

## **SECTION 16.** Other information.

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

Acute Tox. 4	Acute toxicity, category 4
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
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
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.
H412	Harmful 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

- CAS NUMBER: Chemical Abstract Service Number

- CE50: Effective concentration (required to induce a 50% effect)

- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average 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 (EU) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament

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- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
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- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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- 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
- ECHA website

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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.

Training for workers:

Worker training should include content, updates and duration depending on the risk profiles assigned to the business sectors they belong.

## Classification according to Regulation (EC) Nr. 1272/2008

Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412 **Classification procedure** Calculation method Calculation method Calculation method Calculation method