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Ŭ	Safety Data Sheet ex II to REACH - Regulation 2020/878 and to Annex II to Uk	
SECTION 1. Identification of the s	ubstance/mixture and of the company/u	ndertaking
1.1. Product identifier Code: Product name	160118-100745 CAT. per EPOXYMASTIC GF Antiskyd	
1.2. Relevant identified uses of the substance Intended use Hardener for two	or mixture and uses advised against components paint.	
1.3. Details of the supplier of the safety data sl Name Full address District and Country	heet Ti.Pi.Ci. S.a.s. Via Val Lerone, 21 16011 Arenzano (GE) Italy	
	Tel. +39 010 9111368	
	Fax +39 010 9134188	
e-mail address of the competent person		
responsible for the Safety Data Sheet	laboris@tipici.net	
1.4. Emergency telephone number For urgent inquiries refer to	Centro Antiveleni di Bergamo +39800883300 (Azie Bergamo) Centro Antiveleni di Firenze +39055/7947819 (CAV Centro Antiveleni di Foggia +39800183459 (Az. Os Centro Antiveleni di Milano +3902/66101029 (CAO Milano) Centro Antiveleni di Napoli +39081/5453333 (CAV Centro Antiveleni di Pavia +390382/24444 (CAV IR Centro Antiveleni di Roma +3906/3054343 (CAV Pe Centro Antiveleni di Roma +3906/49978000 (CAV F Centro Antiveleni di Roma +3906/68593726 (CAV C Roma) Centro Antiveleni di Verona +39800011858 (Aziene	/ Ospedale Careggi - Firenze) sp. Univ. Foggia - Foggia) Ospedale Niguarda Cà Granda - Ospedale Cardarelli - Napoli) CCCS Fondazione Maugeri - Pavia) oliclinico Gemelli - Roma) Policlinico Umberto I - Roma) Osp. Pediatrico Bambino Gesù -

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,	H411	Toxic to aquatic life with long lasting effects.

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actorery 2				
category 2				
2.2. Label elements				
Hazard labelling pursua	nt to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.			
Hazard pictograms:				
	\wedge			
	¥73			
	•			
Signal words:	Warning			
Hazard statements:				
H319	Causes serious eye irritation.			
H315 H317	Causes skin irritation. May cause an allergic skin reaction.			
H411	Toxic to aquatic life with long lasting effects.			
Precautionary statemen	ts:			
P280 P273	Wear protective gloves / eye protection / face protection. Avoid release to the environment.			
P391	Collect spillage.			
P261 P333+P313	Avoid breathing dust / fume / gas / mist / vapours / spray. If skin irritation or rash occurs: Get medical advice / attention.			
P337+P313	If eye irritation persists: Get medical advice / attention.			
Contains:	Oxiran, mono[(C12-14-alkyloxy)methyl] derivs.			
	REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)			
	REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)			
	Phenol, methylstyrenated			
2.3. Other hazards				
2.5. Juici nazalus				
On the basis of availabl	e data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.			
The product does not co	potain substances with endocrine disrupting properties in concentration \geq 0.1%.			
SECTION 3. Co	emposition/information on ingredients			
3.2. Mixtures				
5.2. MIALUI 65				
Contains:				
Identification x = Conc. % Classification (EC) 1272/2008 (CLP)				
identification				

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			1
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN) INDEX 603-074-00-8	50 ≤ x < 90	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, H411	Aquatic Chronic 2
EC 500-033-5		Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%	
CAS 25068-38-6			
REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN) INDEX	25≤x< 26	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, H411	Aquatic Chronic 2
EC -			
CAS 28064-14-4			
Oxiran, mono[(C12-14- alkyloxy)methyl] derivs. INDEX 603-103-00-4	12≤x< 13	Skin Irrit. 2 H315, Skin Sens. 1 H317	
EC 271-846-8			
CAS 68609-97-2			
[3-(2,3-EPOXYPROPOXY) PROPYL] TRIMETHOXYSILANE INDEX -	2,5≤x< 3	Eye Dam. 1 H318, Aquatic Chronic 3 H412	
EC 219-784-2			
CAS 2530-83-8			
Phenol, methylstyrenated			
INDEX	1,5 ≤ x < 2	Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic	3 H412
EC -			
CAS 68512-30-1			

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. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

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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.

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

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)

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Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Phenol, methylstyrena								
Predicted no-effect concen	tration - PNEC							
Normal value in fresh wate	r			0,014	mç	g/l		
Normal value in marine wa	ter			0,0014	mç	g/l		
Normal value for fresh wate	er sediment			1064	mg	g/kg/d		
Normal value for marine wa	ater sediment			106	mç	g/kg/d		
Normal value for water, inte	ermittent release			0,14	mç	g/l		
Normal value of STP micro	organisms			2,4	mç	g/I		
Normal value for the terres	trial compartment			212	mç	g/kg/d		
Health - Derived no-ef	fect level - DNEL / [OMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,2 mg/kg bw/d				
Inhalation				0,35 mg/m3				1,4 mg/kg
Skin				1,7 mg/kg				3,5 mg/kg

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.

1,7 mg/kg bw/d

bw/d

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.

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 (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 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.

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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	liquid	
Colour	transparent	
Odour	characteristic	
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	> 65 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
рН	not available	
Kinematic viscosity	not available	
Solubility	soluble in organic solvents	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,128 (+-) 0,050	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

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10.1. Reactivity

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 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

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Information not available Interactive effects Information not available	
Interactive effects	Replaced revision:5 (Dated: 11/12/2020)
Interactive effects	
Information not available	
Information not available	
ACUTE TOXICITY	
ATE (Inhalation) of the mixture:Not classified (no significant component)ATE (Oral) of the mixture:Not classified (no significant component)ATE (Dermal) of the mixture:Not classified (no significant component)	
[3-(2,3-EPOXYPROPOXY) PROPYL] TRIMETHOXYSILANE	
LD50 (Dermal): 4250 mg/kg Rabbit - New Zeland white	
LD50 (Oral): 8025 mg/kg Rat - Wistar LC50 (Inhalation vapours): > 5,3 mg/l/4h Rat - Fischer 344	
Phenol, methylstyrenated	
LD50 (Dermal): > 2000 mg/kg ratto LD50 (Oral): > 2000 mg/kg ratto	
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	

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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**

55 mg/l/96h Cyprinus carpio

324 mg/l/48h Simocephalus vetulus

[3-(2,3-EPOXYPROPOXY) PROPYL] TRIMETHOXYSILANE LC50 - for Fish

EC50 - for Crustacea

12.2. Persistence and degradability

[3-(2,3-EPOXYPROPOXY) PROPYL] TRIMETHOXYSILANE NOT rapidly degradable

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN) Solubility in water

NOT rapidly degradable

0,1 - 100 mg/l

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12.3. Bioaccumulative potential

[3-(2,3-EPOXYPROPOXY) PROPYL] TRIMETHOXYSILANE Partition coefficient: n-octanol/water	-2,6
REACTION PRODUCT: BISPHENOL A- (EPICHLORHYDRIN) Partition coefficient: n-octanol/water BCF	> 2,918 31
12.4. Mobility in soil	
REACTION PRODUCT: BISPHENOL A- (EPICHLORHYDRIN) Partition coefficient: soil/water	2,65

EPICHLORHYDRIN)	
Partition coefficient: soil/water	

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.

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 ≤ 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 ≤ 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.					
ADR / RID: IATA dangerous goods regulations. ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO (EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO (EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO	on:5 (Dated: 11/12/2020)				
ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO (EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO (EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO	on:5 (Dated: 11/12/2020)				
4.2. UN proper shipping name ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) MDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN))					
ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO (EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO (EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO					
ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENG (EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENG (EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENG					
ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENG (EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENG (EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENG					
(EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO (EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO					
(EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL A- (EPICHLORHYDRIN): REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)				
(EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN)) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENO	OL A-				
(EPICHLORHYDRIN); REACTION PRODUCT: BISPHENOL F-(EPICHLORHYDRIN))	JL A-				
,					
I.3. Transport hazard class(es)					
ADR / RID: Class: 9 Label: 9					
IMDG: Class: 9 Label: 9					
IATA: Class: 9 Label: 9					
*					
4.5. Environmental hazards					
ADR / RID: Environmentally					
Hazardous					
IMDG: Marine Pollutant					
IATA: Environmentally Hazardous					
nazardous					
4.6. Special precautions for user					
ADR / RID: HIN - Kemler: 90 Limited	Tunnel				
Quantities: 5	restriction				
L Special provision: -	code: (-)				
IMDG: EMS: F-A, S-F Limited					
Quantities: 5 L					
IATA: Cargo: Maximum guantity: 450	Packaging instructions:				
L T	964				
Pass.: Maximum quantity: 450	Packaging instructions:				
Special provision: A97, A158,	964				
A97, A156, A197, A215					

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14.7. Maritime transport in bulk according to IMO instruments			
nformation not relevant			
SECTION 15. Regulatory information			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixtur	re		
Seveso Category - Directive 2012/18/EU: E2			
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907	7/2006		
Product Point 3			
Contained substance			
Point 75			
Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors			
not applicable			
Substances in Candidate List (Art. 59 REACH)			
On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.			
Substances subject to authorisation (Annex XIV REACH)			
None			
Substances subject to exportation reporting pursuant to Regulation (EU) 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-asse workers' health and safety are modest and that the 98/24/EC directive is respected.	essment data prove that the risks related to the		
15.2. Chemical safety assessment			
A chemical safety assessment has not been performed for the preparation/for the substances indicated in	section 3.		

Ti.Pi.Ci. S.a.s.

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SECTION 16. Other information

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

Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H318	Causes serious eye damage.
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.

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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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)	
10. Delegated Regulation (UE) 2020/217 (XIV Alp. 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: 02 / 03 / 04 / 08 / 09 / 11 / 12 / 14 / 15 / 16.