Safety Data Sheet

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

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **1102505005-06 A**
Product name **EPOX SUPER comp. A**

UFI : **P3U0-T0JM-6006-RXTV**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **Bi-component anti-mold epoxy sealant for ceramic coatings**

Identified Uses	Industrial	Professional	Consumer
BUILDING	**-**	**SU: 19.**	**SU: 19.**

Product to be mixed with compound B.
Product for craft and private use.
Any other use is not recommended.

1.3. Details of the supplier of the safety data sheet

Name **FORNACI CALCE GRIGOLIN S.p. A.**
Full address **Via Foscarini, 2**
District and Country **31040 Nervesa della Battaglia (TV)**
Italy
Tel. +39 0422 5261
Fax +39 0422 526299
e-mail address of the competent person responsible for the Safety Data Sheet **info@fornacigrigolin.it**

1.4. Emergency telephone number

For urgent inquiries refer to **HEALTH EMERGENCY - 112**

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 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:

SECTION 2. Hazards identification ... / >>

Signal words: Warning

Hazard statements:

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.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Precautionary statements:

P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P264	To carefully wash with water and soap after the use.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P280	Wear protective gloves / eye protection / face protection.
P337+P313	If eye irritation persists: Get medical advice / attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Contains: REACTION PRODUCT: BISPHENOL-F-EPICHLOROHYDRIN; epoxy resin
OXIRANE, MONO [(C12-14-ALKYLOXY) METHYL] DERIVATIVES
REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL-1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE

Product not intended for uses provided for by Directive 2004/42/EC.

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 ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification		**x = Conc. %**	**Classification (EC) 1272/2008 (CLP)**
REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN			
INDEX	*603-074-00-8*	12 ≤ x < 19	**Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411**
EC	*500-033-5*		**Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%**
CAS	*25068-38-6*		
REACH Reg.	*01-2119456619-26*		
REACTION PRODUCT: BISPHENOL-F-EPICHLOROHYDRIN; epoxy resin			
INDEX		4 ≤ x < 8	**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*		
OXIRANE, MONO [(C12-14-ALKYLOXY) METHYL] DERIVATIVES			
INDEX	*603-103-00-4*	1 ≤ x < 4	**Skin Irrit. 2 H315, Skin Sens. 1 H317**
EC	*271-846-8*		
CAS	*68609-97-2*		
REACH Reg.	*01-2119485289-22*		
DIPROPYLENE GLYCOL MONOMETHYL ETHER			
INDEX		0 < x < 1	**Substance with a community workplace exposure limit.**
EC	*252-104-2*		
CAS	*34590-94-8*		
REACH Reg.	*01-2119450011-60*		

SECTION 3. Composition/information on ingredients ... / >>

REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL-1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE

INDEX 0,25 ≤ x < 1 **Repr. 2 H361f, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1**

EC *915-687-0*
CAS *1065336-91-5*
REACH Reg. *01-2119491304-40*

TITANIUM DIOXIDE [in powder containing ≥ 1% of particles with aerodynamic diameter ≤ 10 µm]

INDEX 0 < x < 1 **Carc. 2 H351, EUH212**

EC *236-675-5*
CAS *13463-67-7*
REACH Reg. *01-2119489379-17*

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document.
In case of more severe symptoms, ask for immediate medical aid.
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.
INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If symptoms occur, whether acute or delayed, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

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.

SECTION 5. Firefighting measures ... / >>

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)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;

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

	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
TLV-ACGIH	ACGIH 2023

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,006	mg/l
Normal value in marine water	0,0006	mg/l
Normal value for fresh water sediment	0,996	mg/kg
Normal value for marine water sediment	0,0996	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	0,750 mg/kg bw/d				
Inhalation							VND	12,25 mg/m3
Skin			VND	3,751 mg/kg bw/d			VND	8,33 mg/kg bw/d

OXIRANE, MONO [(C12-14-ALKYLOXY) METHYL] DERIVATIVES

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,1058	mg/l
Normal value in marine water	0,01058	mg/l
Normal value for fresh water sediment	307,16	mg/kg/d
Normal value for marine water sediment	30,72	mg/kg/d
Normal value for marine water, intermittent release	0,072	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	1,234	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,500 mg/kg bw/d				
Inhalation				0,870 mg/m3				3,6 mg/m3
Skin				0,500 mg/kg bw/d				1 mg/kg bw/d

TITANIUM DIOXIDE [in powder containing ≥ 1% of particles with aerodynamic diameter ≤ 10 µm]

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	FRA	10				
GVI/KGVI	HRV	10				INHAL
GVI/KGVI	HRV	4				RESP
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		2,5				RESP

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			0,028 mg/m3				0,170 mg/m3	

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

REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL-1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0022	mg/l
Normal value in marine water	0,00022	mg/l
Normal value for fresh water sediment	1,05	mg/kg
Normal value for marine water sediment	0,11	mg/kg
Normal value for water, intermittent release	0,009	mg/l
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	0,21	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	0,180 mg/kg bw/d				
Inhalation			VND	0,310 mg/m3				1,27 mg/m3
Skin			VND	0,900 mg/kg bw/d			VND	1,80 mg/kg bw/d

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	310	50	310	50	11
MAK	DEU	310	50	310	50	
VLEP	FRA	308	50			SKIN
GVI/KGVI	HRV	308	50			SKIN
VLEP	ITA	308	50			SKIN
MV	SVN	308	50			SKIN
WEL	GBR	308	50			SKIN
OEL	EU	308	50			SKIN
TLV-ACGIH			50			

Predicted no-effect concentration - PNEC

Normal value in fresh water	19	mg/l
Normal value in marine water	1,9	mg/l
Normal value for fresh water sediment	70,2	mg/kg
Normal value for marine water sediment	7,02	mg/kg
Normal value for marine water, intermittent release	190	mg/l
Normal value of STP microorganisms	4,168	mg/l
Normal value for the terrestrial compartment	2,74	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				36 mg/kg bw/d				
Inhalation				37.2 mg/m3				308 mg/m3
Skin				121 mg/kg bw/d				283 mg/kg bw/d

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
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.
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.

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

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.
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 ISO 16321).
RESPIRATORY PROTECTION
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. 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).
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.

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
Glove material for long-term use (BTT> 480 min): laminated ethyl vinyl alcohol (EVAL), butyl rubber.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value		Information
Appearance		paste		
Colour		as showed in color folder		
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	>	100	°C	
Auto-ignition temperature		not available		
Decomposition temperature		not available		
pH		not available		
Kinematic viscosity		not available		
Solubility		not available		
Partition coefficient: n-octanol/water		not available		
Vapour pressure		not available		
Density and/or relative density		1,33		
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

VOC (Directive 2010/75/EU)	0,01 %	-	0,03	g/litre
VOC (volatile carbon)	0,01 %	-	0,03	g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER
Forms peroxides with: air.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
For masses greater than 0.5 kg, the addition of a amine causes a strongly exothermic reaction.
The reaction of the product with amines is irreversible.

DIPROPYLENE GLYCOL MONOMETHYL ETHER
May react violently with: strong oxidising agents.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
Thermal decomposition develops gases that can cause compression in closed systems.

DIPROPYLENE GLYCOL MONOMETHYL ETHER
Avoid exposure to: sources of heat.Possibility of explosion.

10.5. Incompatible materials

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
Avoid non -intentional contact with amines.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
An uncontrolled exothermic reaction free phenolic derivatives, carbon monoxide and water.

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
The biotransformation mechanism of the reaction product between bisfenol a-epiclorhydrine is clear if referred to monomers and not to the oligomers.
The substance is split to the corresponding Diolo through epoxy-hydrolasis, followed by the elimination of the diolo in free or married form or oxidized to carboxylic acid.

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

SECTION 11. Toxicological information ... / >>

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)

OXIRANE, MONO [(C12-14-ALKYLOXY) METHYL] DERIVATIVES

LD50 (Dermal):	> 4000 mg/kg Rabbit
LD50 (Oral):	> 26800 mg/kg Rat
LC50 (Inhalation vapours):	> 0,15 mg/l/4h Rat

TITANIUM DIOXIDE [in powder containing ≥ 1% of particles with aerodynamic diameter ≤ 10 µm]

LD50 (Oral):	> 5000 mg/kg rat
LC50 (Inhalation mists/powders):	> 6,82 mg/l/4h rat

REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL-1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE

LD50 (Dermal):	3170 mg/kg Rat
LD50 (Oral):	3230 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
The substance is moderately irritating for the skin.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
The substance is moderately irritating for the cornea.

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
Bisfenol a-epicloridrine presents modest sensitizing skills of the respiratory tract, due to its poor steam tension.

Skin sensitization

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
The skin awareness caused by epoxy is manifested, following repeated exposures, with allergic dermatitis (redness, inflammation, edema, exudation, challenging).

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
Data not available.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
Data not available.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

SECTION 11. Toxicological information ... / >>

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
Data not available.

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 the aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1. Toxicity

OXIRANE, MONO [(C12-14-ALKYLOXY) METHYL] DERIVATIVES

LC50 - for Fish	> 5000 mg/l/96h

REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL-1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE

LC50 - for Fish	0,97 mg/l/96h Lepomis macrochirus
EC50 - for Algae / Aquatic Plants	1,68 mg/l/72h
Chronic NOEC for Crustacea	1 mg/l

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN

LC50 - for Fish	1,5 mg/l/96h
EC50 - for Crustacea	2 mg/l/48h

TITANIUM DIOXIDE [in powder containing ≥ 1% of particles with aerodynamic diameter ≤ 10 µm]

EC50 - for Crustacea	> 100 mg/l/48h
EC50 - for Algae / Aquatic Plants	100 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	> 5600 mg/l

12.2. Persistence and degradability

OXIRANE, MONO [(C12-14-ALKYLOXY) METHYL] DERIVATIVES

Solubility in water	0,483 mg/l

Rapidly degradable

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN

Solubility in water	7 mg/l

NOT rapidly degradable

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Solubility in water	1000 - 10000 mg/l

Rapidly degradable

TITANIUM DIOXIDE [in powder containing ≥ 1% of particles with aerodynamic diameter ≤ 10 µm]
NOT rapidly degradable

12.3. Bioaccumulative potential

SECTION 12. Ecological information ... / >>

OXIRANE, MONO [(C12-14-ALKYLOXY) METHYL] DERIVATIVES
Partition coefficient: n-octanol/water 6
BCF 263

REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN
Partition coefficient: n-octanol/water 3
BCF 31

DIPROPYLENE GLYCOL MONOMETHYL ETHER
Partition coefficient: n-octanol/water 0,0043

12.4. Mobility in soil

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 ≥ 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.
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations.
See section 8 for possible need for PPE.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

SECTION 14. Transport information ... / >>

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product		
Point	3	
Contained substance		
Point	75	TITANIUM DIOXIDE [in powder containing ≥ 1% of particles with aerodynamic diameter ≤ 10 µm] REACH Reg.: 01-2119489379-17
Point	75	OXIRANE, MONO [(C12-14-ALKYLOXY) METHYL] DERIVATIVES REACH Reg.: 01-2119485289-22
Point	75	REACTION PRODUCT: BISPHENOL-A-EPICHLORHYDRIN REACH Reg.: 01-2119456619-26

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 ≥ 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-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

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:

Carc. 2	Carcinogenicity, category 2
Repr. 2	Reproductive toxicity, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, 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

SECTION 16. Other information ... / >>

H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Use descriptor system:

SU	19	Building and construction work

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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- 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
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)

SECTION 16. Other information ... / >>

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)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI 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.

Safety Data Sheet

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

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: **1102505005-06 B**
Product name **EPOX SUPER comp. B**

UFI : **H6U0-A080-G00Q-E9DX**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **Bi-component anti-mold epoxy sealant for ceramic coatings**

Identified Uses	Industrial	Professional	Consumer
BUILDING	**-**	**SU: 19.**	**SU: 19.**

Product to be mixed with compound A.
Product for craft and private use.
Any other use is not recommended.

1.3. Details of the supplier of the safety data sheet

Name **FORNACI CALCE GRIGOLIN S.p. A.**
Full address **Via Foscarini, 2**
District and Country **31040 Nervesa della Battaglia (TV)**
Italy
Tel. +39 0422 5261
Fax +39 0422 526299
e-mail address of the competent person responsible for the Safety Data Sheet **info@fornacigrigolin.it**

1.4. Emergency telephone number

For urgent inquiries refer to **HEALTH EMERGENCY - 112**

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:

Acute toxicity, category 4	H302	Harmful if swallowed.
Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1A	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.

2.2. Label elements

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

Hazard pictograms:

SECTION 2. Hazards identification ... / >>

Signal words: Danger

Hazard statements:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Precautionary statements:

P264	To carefully wash with water and soap after the use.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER / doctor / . . .
P260	Do not breathe dust / fume / gas / mist / vapours / spray.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

Contains:

3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE
M-PHENYLENEBIS (METHYLAMINE)
Phenol, 4,4-(1-methylethylidene)bis-, polymer with 1,3-benzenedimethanamine and (chloromethyl)oxirane
FATTY ACIDS, C18-INSATURES, DIMERS, POLYMERS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENTETRAMINE
1,3-Benzenedimethanamine, reaction products with glycidyl tolyl ether
PHENOL STYRENATE
N,N-DIMETHYL-1,3-DIAMINOPROPANE

Product not intended for uses provided for by Directive 2004/42/EC.

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 contains substances with endocrine disrupting properties in concentration ≥ 0,1%:
SALICYLIC ACID

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification		**x = Conc. %**	**Classification (EC) 1272/2008 (CLP)**
3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE			
INDEX	*612-067-00-9*	25 ≤ x < 35	**Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Chronic 3 H412**
EC	*220-666-8*		**Skin Sens. 1A H317: ≥ 0,001%, Eye Irrit. 2 H319: ≥ 1% - < 3%**
CAS	*2855-13-2*		**LD50 Oral: 1030 mg/kg, LD50 Dermal: 2000 mg/kg**
REACH Reg.	*01-2119514687-32*		
FATTY ACIDS, C18-INSATURES, DIMERS, POLYMERS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENTETRAMINE			
INDEX		12 ≤ x < 19	**Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Chronic 2 H411**
EC	*500-191-5*		
CAS	*68082-29-1*		
REACH Reg.	*01-2119972320-44*		
BENZYL ALCOHOL			
INDEX	*603-057-00-5*	10 ≤ x < 12	**Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Sens. 1B H317**
EC	*202-859-9*		**LD50 Oral: 1620 mg/kg, ATE Inhalation vapours: 11 mg/l**
CAS	*100-51-6*		
REACH Reg.	*01-2119492630-38*		

SECTION 3. Composition/information on ingredients ... / >>

Phenol, 4,4-(1-methylethylidene)bis-, polymer with 1,3-benzenedimethanamine and (chloromethyl)oxirane

INDEX		5 ≤ x < 8	**Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 2 H411**
EC	*500-302-7*		
CAS	*113930-69-1*		
REACH Reg.	*01-2119965162-39*		

M-PHENYLENEBIS (METHYLAMINE)

INDEX		5 ≤ x < 8	**Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1B H317, Aquatic Chronic 3 H412, EUH071**
EC	*216-032-5*		**ATE Oral: 500 mg/kg, ATE Inhalation vapours: 11 mg/l**
CAS	*1477-55-0*		
REACH Reg.	*01-2119480150-50*		

1,3-Benzenedimethanamine, reaction products with glycidyl tolyl ether

INDEX		1 ≤ x < 2,5	**Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411**
EC	*290-611-0*		**LD50 Oral: 300 mg/kg**
CAS	*90194-04-0*		
REACH Reg.	*01-2120770491-54*		

BENZYLDIMETHYLAMINE

INDEX	*612-074-00-7*	0 < x < 1	**Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Chronic 3 H412**
EC	*203-149-1*		**LD50 Oral: 650 mg/kg, LD50 Dermal: 1660 mg/kg, ATE Inhalation vapours: 11 mg/l**
CAS	*103-83-3*		
REACH Reg.	*01-2119-529232-48*		

SALICYLIC ACID

INDEX		0 < x < 1	**Repr. 2 H361d, Acute Tox. 4 H302, Eye Dam. 1 H318**
EC	*200-712-3*		**LD50 Oral: 891 mg/kg**
CAS	*69-72-7*		
REACH Reg.	*01-2119486984-17*		

N,N-DIMETHYL-1,3-DIAMINOPROPANE

INDEX	*612-061-00-6*	0 < x < 1	**Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1B H317**
EC	*203-680-9*		**LD50 Oral: 410 mg/kg, LD50 Dermal: 1000 mg/kg**
CAS	*109-55-7*		
REACH Reg.	*01-2119486842-27*		

PHENOL STYRENATE

INDEX		0,1 ≤ x < 1	**Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Chronic 2 H411**
EC	*262-975-0*		
CAS	*61788-44-1*		
REACH Reg.	*02-2119980970-27*		

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document.
In case of more severe symptoms, ask for immediate medical aid.
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Rinse your mouth with running water. Do not give anything by mouth to an unconscious person. Get medical advice/attention.
INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

SECTION 4. First aid measures ... / >>

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If symptoms occur, whether acute or delayed, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

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.

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

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
	TLV-ACGIH	ACGIH 2023

3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,06	mg/l
Normal value in marine water	0,006	mg/l
Normal value for fresh water sediment	5,784	mg/kg
Normal value for marine water sediment	0,578	mg/kg
Normal value for marine water, intermittent release	0,23	mg/l
Normal value of STP microorganisms	3,18	mg/l
Normal value for the terrestrial compartment	1,121	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		0.300 mg/kg bw/d		0,300 mg/kg bw/d				
Inhalation					0,073 mg/m3		0,073 mg/m3	

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

FATTY ACIDS, C18-INSATURES, DIMERS, POLYMERS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENTETRAMINE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00434	mg/l
Normal value in marine water	0,000434	mg/l
Normal value for fresh water sediment	434,02	mg/kg
Normal value for marine water sediment	43,4	mg/kg
Normal value for water, intermittent release	0,0434	mg/l
Normal value of STP microorganisms	3,84	mg/l
Normal value for the terrestrial compartment	86,78	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,0972 mg/kg bw/d				
Inhalation				0,169 mg/m3				0,952 mg/m3
Skin				0,0972 mg/kg bw/d				0,272 mg/kg bw/d

BENZYL ALCOHOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	22	5	44	10	SKIN	11
MV	SVN	22	5	44	10	SKIN	

Predicted no-effect concentration - PNEC

Normal value in fresh water	1	mg/l
Normal value in marine water	0,1	mg/l
Normal value for fresh water sediment	5,27	mg/kg
Normal value for marine water sediment	0,527	mg/kg
Normal value for water, intermittent release	2,3	mg/l
Normal value of STP microorganisms	39	mg/l
Normal value for the terrestrial compartment	0,456	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	20 mg/kg bw/d	VND	4 mg/kg bw/d				
Inhalation	VND	27 mg/m3	VND	5,4 mg/m3	VND	110 mg/m3	VND	22 mg/m3
Skin	VND	20 mg/kg bw/d	VND	4 mg/kg bw/d	VND	40 mg/kg bw/d	VND	8 mg/kg bw/d

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

Phenol, 4,4-(1-methylethylidene)bis-, polymer with 1,3-benzenedimethanamine and (chloromethyl)oxirane

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00146	mg/l
Normal value in marine water	0,000146	mg/l
Normal value for fresh water sediment	4610000	mg/kg/d
Normal value for marine water sediment	461000	mg/kg/d
Normal value for marine water, intermittent release	0,0146	mg/l
Normal value for fresh water, intermittent release	0,00146	mg/l
Normal value of STP microorganisms	8,889	mg/l
Normal value for the food chain (secondary poisoning)	3,33	mg/kg
Normal value for the terrestrial compartment	923000	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,05 mg/kg bw/d				
Inhalation				0,074 mg/m3				0,493 mg/m3
Skin				0,05 mg/kg bw/d				0,14 mg/kg bw/d

M-PHENYLENEBIS (METHYLAMINE)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MV	SVN	0,1				
TLV-ACGIH				0,018 (C)		SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,094	mg/l
Normal value in marine water	0,0094	mg/l
Normal value for fresh water sediment	12,4	mg/kg/d
Normal value for marine water sediment	1,24	mg/kg/d
Normal value for marine water, intermittent release	0,152	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	2,44	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							0.2 mg/m3	1.2 mg/m3
Skin								0.33 mg/kg bw/d

1,3-Benzenedimethanamine, reaction products with glycidyl tolyl ether

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0011	mg/l
Normal value in marine water	0,00011	mg/l
Normal value for fresh water sediment	1,099	mg/kg/d
Normal value for marine water sediment	0,10989	mg/kg/d
Normal value for marine water, intermittent release	0,011	mg/l
Normal value for fresh water, intermittent release	0,01	mg/l
Normal value of STP microorganisms	7,5	mg/l
Normal value for the terrestrial compartment	0,217	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								0,0191 mg/m3
Skin								0,15 mg/kg bw/d

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

BENZYLDIMETHYLAMINE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0048	mg/l
Normal value in marine water	0,00048	mg/l
Normal value for fresh water sediment	0,071	mg/kg/d
Normal value for marine water sediment	0,0071	mg/kg/d
Normal value for marine water, intermittent release	0,0134	mg/l
Normal value of STP microorganisms	534	mg/l
Normal value for the terrestrial compartment	0,0114	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		0,800 mg/kg bw/d		0,400 mg/kg bw/d				
Inhalation		2,6 mg/m3		1,3 mg/m3		14,8 mg/m3		7,4 mg/m3
Skin		1,5 mg/kg bw/d		0,800 mg/kg bw/d		4,2 mg/kg bw/d		2,1 mg/kg bw/d

PHENOL STYRENATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,004	mg/l
Normal value in marine water	0,0004	mg/l
Normal value for fresh water sediment	0,248	mg/kg/d
Normal value for marine water sediment	0,0248	mg/kg/d
Normal value for marine water, intermittent release	0,046	mg/l
Normal value for fresh water, intermittent release	0,0046	mg/l
Normal value of STP microorganisms	36,2	mg/l
Normal value for the terrestrial compartment	0,0473	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,75 mg/kg bw/d				
Inhalation				1,31 mg/m3				7,4 mg/m3
Skin				0,75 mg/kg bw/d				2,1 mg/kg bw/d

N,N-DIMETHYL-1,3-DIAMINOPROPANE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0728	mg/l
Normal value in marine water	0,00728	mg/l
Normal value for fresh water sediment	0,735	mg/kg/d
Normal value for marine water sediment	0,0735	mg/kg/d
Normal value for marine water, intermittent release	0,34	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,104	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								1,2 mg/m3

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

SALICYLIC ACID

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,2	mg/l
Normal value in marine water	0,02	mg/l
Normal value for fresh water sediment	1,42	mg/kg/d
Normal value for marine water sediment	0,142	mg/kg/d
Normal value for marine water, intermittent release	1	mg/l
Normal value of STP microorganisms	162	mg/l
Normal value for the terrestrial compartment	0,166	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		4 mg/kg bw/d		1 mg/kg bw/d				
Inhalation				4 mg/m3			5 mg/m3	5 mg/m3
Skin				1 mg/kg bw/d				2,3 mg/kg bw/d

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
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.
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, permeability time.
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 ISO 16321).
In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.
RESPIRATORY PROTECTION
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. 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).
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	giallo chiaro	
Odour	amino	
Melting point / freezing point	not available	

SECTION 9. Physical and chemical properties ... / >>

Initial boiling point		not available	
Flammability		not available	
Lower explosive limit		not available	
Upper explosive limit		not available	
Flash point	>	150	°C
Auto-ignition temperature		not available	
Decomposition temperature		not available	
pH		11	
Kinematic viscosity		not available	
Solubility		not available	
Partition coefficient: n-octanol/water		not available	
Vapour pressure		not available	
Density and/or relative density		0,986	kg/l
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

VOC (Directive 2010/75/EU)	12,19 %	-	120,24	g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

BENZYL ALCOHOL
It decomposes at temperatures above 870 ° C/1598 ° f. Possibility of explosion.

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.

3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE
May react dangerously with: strong oxidising agents,concentrated inorganic acids.
BENZYL ALCOHOL
May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.
Risk of explosion on contact with: phosphorus trichloride.

10.4. Conditions to avoid

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

3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE
Avoid contact with: strong acids,strong oxidants.
BENZYL ALCOHOL
Avoid exposure to: air,sources of heat,naked flames.

10.5. Incompatible materials

BENZYL ALCOHOL
Incompatible with: sulphuric acid,oxidising substances,aluminium.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

BENZYLDIMETHYLAMINE
When decomposed by heating it emits NOx fumes.

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 - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	1020,29 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

Corrosive to the respiratory tract.

3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

LD50 (Dermal):	2000 mg/kg rat
LD50 (Oral):	1030 mg/kg rat
LC50 (Inhalation vapours):	5,01 mg/l/4h rat

FATTY ACIDS, C18-INSATURES, DIMERS, POLYMERS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENTETRAMINE

LD50 (Dermal):	> 2000 mg/kg rat
LD50 (Oral):	> 2000 mg/kg rat

BENZYL ALCOHOL

LD50 (Dermal):	2000 mg/kg rabbit
LD50 (Oral):	1620 mg/kg rat
LC50 (Inhalation vapours):	4,178 mg/l/4h rat
ATE (Inhalation vapours):	11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

M-PHENYLENEBIS (METHYLAMINE)

LD50 (Dermal):	3100 mg/kg Rat
LD50 (Oral):	> 200 mg/kg Rat - Sprague-Dawley
ATE (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LC50 (Inhalation vapours):	1,34 mg/l Rat - Wistar
ATE (Inhalation vapours):	11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

1,3-Benzenedimethanamine, reaction products with glycidyl tolyl ether

LD50 (Oral):	300 mg/kg

BENZYLDIMETHYLAMINE

LD50 (Dermal):	1660 mg/kg Rabbit
LD50 (Oral):	650 mg/kg Rat
LC50 (Inhalation vapours):	2,052 mg/l/4h Rat
ATE (Inhalation vapours):	11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

SECTION 11. Toxicological information ... / >>

PHENOL STYRENATE
LD50 (Dermal): 2000 mg/kg rat
LD50 (Oral): 2000 mg/kg rat

N,N-DIMETHYL-1,3-DIAMINOPROPANE
LD50 (Dermal): 1000 mg/kg Rat
LD50 (Oral): 410 mg/kg Rat
LC50 (Inhalation vapours): 4,31 mg/l/4h Rat

SALICYLIC ACID
LD50 (Dermal): 2000 mg/kg Rat
LD50 (Oral): 891 mg/kg Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

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 contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny:
SALICYLIC ACID

SECTION 12. Ecological information

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

12.1. Toxicity

FATTY ACIDS, C18-INSATURES, DIMERS, POLYMERS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENTETRAMINE
LC50 - for Fish 7,07 mg/l/96h
EC50 - for Crustacea 7,07 mg/l/48h
EC50 - for Algae / Aquatic Plants 4,34 mg/l/72h

SECTION 12. Ecological information ... / >>

N,N-DIMETHYL-1,3-DIAMINOPROPANE

EC50 - for Algae / Aquatic Plants	34 mg/l/72h

BENZYL ALCOHOL

LC50 - for Fish	460 mg/l/96h
EC50 - for Crustacea	230 mg/l/48h
EC50 - for Algae / Aquatic Plants	770 mg/l/72h
EC10 for Algae / Aquatic Plants	310 mg/l/72h
Chronic NOEC for Crustacea	51 mg/l

3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

LC50 - for Fish	110 mg/l/96h
EC50 - for Crustacea	23 mg/l/48h
EC50 - for Algae / Aquatic Plants	50 mg/l/72h

M-PHENYLENEBIS (METHYLAMINE)

LC50 - for Fish	87,6 mg/l/96h Oryzias latipes
EC50 - for Crustacea	15,2 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	20,3 mg/l/72h Pseudokirchneriella subcapitata

PHENOL STYRENATE

LC50 - for Fish	5,6 mg/l/96h
EC50 - for Crustacea	4,6 mg/l/48h
EC50 - for Algae / Aquatic Plants	20,421 mg/l/72h

Phenol, 4,4-(1-methylethylidene)bis-, polymer with 1,3-benzenedimethanamine and (chloromethyl)oxirane

EC50 - for Algae / Aquatic Plants	30 mg/l/72h

BENZYLDIMETHYLAMINE

LC50 - for Fish	37,8 mg/l/96h
EC50 - for Crustacea	> 100 mg/l/48h
EC50 - for Algae / Aquatic Plants	1,34 mg/l/72h
EC10 for Algae / Aquatic Plants	0,24 mg/l/72h

12.2. Persistence and degradability

FATTY ACIDS, C18-INSATURES, DIMERS, POLYMERS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENTETRAMINE

Solubility in water	40 mg/l
Entirely degradable	

N,N-DIMETHYL-1,3-DIAMINOPROPANE

Solubility in water	1000000 mg/l
Rapidly degradable	

BENZYL ALCOHOL

Solubility in water	40000 mg/l
Rapidly degradable	

3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Solubility in water	492 g/l
NOT rapidly degradable	

M-PHENYLENEBIS (METHYLAMINE)

Solubility in water	1000 - 10000 mg/l
NOT rapidly degradable	

PHENOL STYRENATE

Solubility in water	1,95 mg/l
NOT rapidly degradable	

Phenol, 4,4-(1-methylethylidene)bis-, polymer with 1,3-benzenedimethanamine and (chloromethyl)oxirane

Solubility in water	24070 mg/l
NOT rapidly degradable	

SECTION 12. Ecological information ... / >>

1,3-Benzenedimethanamine, reaction products with glycidyl tolyl ether
Solubility in water 528 mg/l
NOT rapidly degradable

SALICYLIC ACID
Solubility in water 2550 mg/l
Rapidly degradable

BENZYLDIMETHYLAMINE
Solubility in water 8000 mg/l
Entirely degradable

12.3. Bioaccumulative potential

FATTY ACIDS, C18-INSATURES, DIMERS, POLYMERS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENTETRAMINE
Partition coefficient: n-octanol/water 10,34

N,N-DIMETHYL-1,3-DIAMINOPROPANE
Partition coefficient: n-octanol/water -0,352
BCF 2,4

BENZYL ALCOHOL
Partition coefficient: n-octanol/water 1,05
BCF 1,37

3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE
Partition coefficient: n-octanol/water 0,99

M-PHENYLENEBIS (METHYLAMINE)
Partition coefficient: n-octanol/water 0,18

PHENOL STYRENATE
Partition coefficient: n-octanol/water 3,03
BCF 10395

Phenol, 4,4-(1-methylethylidene)bis-, polymer with 1,3-benzenedimethanamine and (chloromethyl)oxirane
Partition coefficient: n-octanol/water 3,6
BCF 4,77

1,3-Benzenedimethanamine, reaction products with glycidyl tolyl ether
Partition coefficient: n-octanol/water 2,537

SALICYLIC ACID
Partition coefficient: n-octanol/water 2,64

BENZYLDIMETHYLAMINE
Partition coefficient: n-octanol/water 1,98
BCF 22

12.4. Mobility in soil

3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE
Partition coefficient: soil/water 2,97
PHENOL STYRENATE
Partition coefficient: soil/water 2,77
BENZYLDIMETHYLAMINE
Partition coefficient: soil/water 2,46

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 ≥ 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.

SECTION 12. Ecological information ... / >>

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.
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations.
See section 8 for possible need for PPE.
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, IATA: UN 2735

14.2. UN proper shipping name

ADR / RID: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.
IMDG: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.
IATA: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S.

14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8

14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID: NO
IMDG: not marine pollutant
IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80 Special provision: 274	Limited Quantities: 1 L	Tunnel restriction code: (E)
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L	Packaging instructions: 855
	Passengers:	Maximum quantity: 1 L	Packaging instructions: 851
	Special provision:	A3, A803	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product		
Point	3 - 40	
Contained substance		
Point	75	N,N-DIMETHYL-1,3-DIAMINOPROPANE REACH Reg.: 01-2119486842-27
Point	75	BENZYLDIMETHYLAMINE REACH Reg.: 01-2119-529232-48
Point	75	BENZYL ALCOHOL REACH Reg.: 01-2119492630-38
Point	75	3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE REACH Reg.: 01-2119514687-32

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 ≥ 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-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

3-AMINOMETIL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE
REACH restriction 75 only applies to tattoo inks. Not applicable to the relevant identified uses of the product.

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:

Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
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

SECTION 16. Other information ... / >>

H226	Flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory 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.
EUH071	Corrosive to the respiratory tract.

Use descriptor system:

SU	19	Building and construction work

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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- 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
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)

SECTION 16. Other information ... / >>

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)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI 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.