

## Safety Data Sheet

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

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

#### 1.1. Product identifier

Code: P10487  
Product name: ResinFIP\_Epobond\_T160\_COMP.A  
UFI : VRS0-Q0AA-P001-5HJT

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

Intended use: two -component epoxy resin: component a

#### 1.3. Details of the supplier of the safety data sheet

Name: Licata S.p.A.  
Full address: Via dei Mille 32  
District and Country: 00185 Roma (RM)  
Italia  
Tel.: +39 0922 856088  
Fax: +39 0922 831427  
e-mail address of the competent person responsible for the Safety Data Sheet: controllo-qualita@licataspa.it

#### 1.4. Emergency telephone number

For urgent inquiries refer to:  
NHS111in England: 111  
NHS24in Scotland: 111  
NHS Direct in Wales: 111 or 0845 4647  
In an emergency, if the patient has collapsed or is not breathing properly, call 999

### 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.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1	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:



Signal words: Warning

Licata S.p.A.

P10487 - ResinFIP\_Epobond\_T160\_COMP.A

Revision nr.9  
Dated 12/05/2025  
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Replaced revision:8 (Dated 09/10/2024)

EN

SECTION 2. Hazards identification ... / >>

Hazard statements:

H319

Causes serious eye irritation.

H315

Causes skin irritation.

H335

May cause respiratory 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:

P280

Wear protective gloves / eye protection / face protection.

P261

Avoid breathing dust / fume / gas / mist / vapours / spray.

P312

Call a POISON CENTRE / doctor / . . . if you feel unwell.

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

P264

Wash . . . thoroughly after handling.

P362+P364

Take off contaminated clothing and wash it before reuse.

Contains:

FELDSPATO  
OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS  
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)  
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

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	603-073-00-2	40 ≤ x < 42,5
EC	216-823-5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
CAS	1675-54-3	Skin Irrit. 2 H315: ≥ 5%, Eye Irrit. 2 H319: ≥ 5%
REACH Reg.	01-2119456619-26-0020	
FELDSPATO		
INDEX		24 ≤ x < 25,5
EC	270-666-7	Eye Irrit. 2 H319, STOT SE 3 H335
CAS	68476-25-5	
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)		
INDEX		4 ≤ x < 5
EC	500-006-8	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
CAS	9003-36-5	Skin Irrit. 2 H315: ≥ 5%
REACH Reg.	01-2119454392-40-0010	
QUARTZ		
INDEX		4 ≤ x < 5
EC	238-878-4	Substance with a community workplace exposure limit.
CAS	14808-60-7	
OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS		
INDEX	603-103-00-4	3 ≤ x < 4
EC	271-846-8	Skin Irrit. 2 H315, Skin Sens. 1 H317
CAS	68609-97-2	
REACH Reg.	01-2119485289-22-XXXX	
DIPROPYLENE GLYCOL MONOMETHYL ETHER		
INDEX		1 ≤ x < 2
EC	252-104-2	Substance with a community workplace exposure limit.
CAS	34590-94-8	
REACH Reg.	01-2119450011-60-XXXX	

EPY 11.7.2 - SDS 1004.14

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

INDEX

 $0,25 \leq x < 0,3$ **STOT RE 1 H372**

EC

238-878-4

CAS

14808-60-7

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**

Call a POISON CENTRE / doctor / . . . if you feel unwell.

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).

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<div>SECTION 6. Accidental release measures</div>																													
<div>6.1. Personal precautions, protective equipment and emergency procedures</div> <div> <div>Block the leakage if there is no hazard.</div> <div>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.</div> </div>																													
<div>6.2. Environmental precautions</div> <div> <div>The product must not penetrate into the sewer system or come into contact with surface water or ground water.</div> </div>																													
<div>6.3. Methods and material for containment and cleaning up</div> <div> <div>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.</div> <div>Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.</div> </div>																													
<div>6.4. Reference to other sections</div> <div> <div>Any information on personal protection and disposal is given in sections 8 and 13.</div> </div>																													
<div>SECTION 7. Handling and storage</div>																													
<div>7.1. Precautions for safe handling</div> <div> <div>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.</div> </div>																													
<div>7.2. Conditions for safe storage, including any incompatibilities</div> <div> <div>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.</div> </div>																													
<div>7.3. Specific end use(s)</div> <div> <div>Information not available</div> </div>																													
<div>SECTION 8. Exposure controls/personal protection</div>																													
<div>8.1. Control parameters</div> <div> <div>Regulatory references:</div> <table> <tr> <td>DEU</td><td>Deutschland</td><td>Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58</td></tr> <tr> <td>ESP</td><td>España</td><td>Límites de exposición profesional para agentes químicos en España 2023</td></tr> <tr> <td>FRA</td><td>France</td><td>Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021</td></tr> <tr> <td>HRV</td><td>Hrvatska</td><td>Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)</td></tr> <tr> <td>ITA</td><td>Italia</td><td>Decreto Legislativo 9 Aprile 2008, n.81</td></tr> <tr> <td>SVN</td><td>Slovenija</td><td>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)</td></tr> <tr> <td>GBR</td><td>United Kingdom</td><td>EH40/2005 Workplace exposure limits (Fourth Edition 2020)</td></tr> <tr> <td>EU</td><td>OEL EU</td><td>Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; 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.</td></tr> <tr> <td></td><td>TLV-ACGIH</td><td>ACGIH 2023</td></tr> </table> </div>			DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58	ESP	España	Límites de exposición profesional para agentes químicos en España 2023	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; 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
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## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## 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	
VLA	ESP	308	50			SKIN
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 water, intermittent release	190	mg/l
Normal value of STP microorganisms	4168	mg/l
Normal value for the terrestrial compartment	2,74	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic	Chronic	Effects on workers			
	Acute	Acute				Acute	Acute	Chronic	Chronic
	local	systemic		local	systemic	local	systemic	local	systemic
Oral					36				
					mg/kg bw/d				
Inhalation					37,2				308
					mg/m3				mg/m3
Skin					121				283
					mg/kg bw/d				mg/kg bw/d

## QUARTZ

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP		0,05			RESP
VLEP	FRA	0,1				RESP
GVI/KGVI	HRV	0,1				
VLEP	ITA	0,1				RESP
MV	SVN	0,15				RESP
OEL	EU	0,1				RESP
TLV-ACGIH		0,025				RESP

## QUARTZ

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP		0,05			RESP
VLEP	FRA	0,1				RESP
GVI/KGVI	HRV	0,1				
VLEP	ITA	0,1				RESP
MV	SVN	0,15				RESP
OEL	EU	0,1				RESP
TLV-ACGIH		0,025				RESP

## 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.

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P10487 - ResinFIP\_Epobond\_T160\_COMP.A

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

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

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**  
Protect hands with category III work gloves.  
The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, 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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	pasty	
Colour	white	
Odour	odourless	
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	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	6,5	
Kinematic viscosity	not available	
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,48	
Relative vapour density	not available	
Particle characteristics	not applicable	

Supplementary information for nanoforms

AMORPHOUS SILICATE HYDRATE (nanoform)

Denomination

CAB-O-SIL M-5

Other identifier

Biossido di silicio,Silice sintetica Amorfa

Shape

Shape 1:

Category

spheroidal

Shape

spherical

D10

7 - 15

D50

2 - 30

D90

10 - 35

Specific surface area by mass

50 - 450

nm

nm

nm

m2/g

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**SECTION 9. Physical and chemical properties** ... / >>**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)	1,40 %	-	20,72	g/litre
VOC (volatile carbon)	0,79 %	-	11,75	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.

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Stable in normal conditions of use and storage.

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Stable in normal conditions of use and storage.

Reacts with amines

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Forms peroxides with: air.

**10.2. Chemical stability**

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

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Stable in normal conditions of use and storage.

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Stable in normal conditions of use and storage.

QUARTZ

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.

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Stable in normal conditions of use and storage.

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

polymerizes developing heat in contact with: alifatic amines.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react violently with: strong oxidising agents.

**10.4. Conditions to avoid**

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

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Keep away from: strong acids, strong bases.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Avoid exposure to: sources of heat. Possibility of explosion.

QUARTZ

Decomposes if exposed to: sources of heat.

**10.5. Incompatible materials**

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Incompatible with: strong acids, strong alkalis, amines, strong oxidising agents.

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

Incompatible with: strong oxidising agents, sodium hydroxide.

QUARTZ

Incompatible with: Oxidants.

**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

Information not available

Interactive effects

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)

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

LD50 (Dermal):	4000 mg/kg Coniglio
LD50 (Oral):	26800 mg/kg Ratto
LC50 (Inhalation vapours):	150 mg/l Ratto

**REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)**

LD50 (Dermal):	> 2000 mg/kg Coniglio
LD50 (Oral):	> 2000 mg/kg Ratto

**REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)**

LD50 (Dermal):	> 23000 mg/kg Ratto
LD50 (Oral):	> 15000 mg/kg Ratto

**DIPROPYLENE GLYCOL MONOMETHYL ETHER**

LD50 (Dermal):	9510 mg/kg Coniglio
LD50 (Oral):	> 5000 mg/kg Ratto
LC50 (Inhalation vapours):	3,35 mg/l/7h Ratto

**FELDSPATO**

LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	> 2000 mg/kg Rat
LC50 (Inhalation mists/powders):	> 5,07 mg/l Rat

**MINEMA 1-2-44**

LD50 (Oral):	> 5000 mg/kg Ratto
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**Castor oil, hydrogenated**

LD50 (Dermal):	2000 mg/kg Rat
LD50 (Oral):	20000 mg/kg Rat
LC50 (Inhalation mists/powders):	1,86 mg/l/6h Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

**SECTION 11. Toxicological information** ... / >>

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

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] DERIVS**

LC50 - for Fish	100 mg/l/96h
EC50 - for Crustacea	7,2 mg/l/48h
EC50 - for Algae / Aquatic Plants	843,75 mg/l/72h
Chronic NOEC for Fish	100 mg/l
Chronic NOEC for Algae / Aquatic Plants	500 mg/l

**REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)**

LC50 - for Fish	2,54 mg/l/96h
EC50 - for Crustacea	2,55 mg/l/48h
EC50 - for Algae / Aquatic Plants	1,8 mg/l/72h
EC10 for Crustacea	0,3 mg/l/28d

**REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)**

LC50 - for Fish	2 mg/l/96h Trota iridea
EC50 - for Crustacea	1,8 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	11 mg/l/72h

**DIPROPYLENE GLYCOL MONOMETHYL ETHER**

LC50 - for Fish	> 1000 mg/l/96h
EC50 - for Crustacea	1919 mg/l/48h Pulce d'acqua grande
Chronic NOEC for Crustacea	> 0,5 mg/l Pulce d'acqua grande

**MINEMA 1-2-44**

LC50 - for Fish	> 10000 mg/l/96h
EC50 - for Crustacea	> 1000 mg/l/48h
EC50 - for Algae / Aquatic Plants	75 mg/l/72h

**SECTION 12. Ecological information** ... / >>

Castor oil, hydrogenated	
LC50 - for Fish	10000 mg/l/96h
EC50 - for Crustacea	100 mg/l/48h
EC50 - for Algae / Aquatic Plants	50,005 mg/l/72h
LC10 for Fish	10000 mg/l/96h

**12.2. Persistence and degradability**

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

Solubility in water	0,483 mg/l
Rapidly degradable	100%

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)  
NOT rapidly degradable

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)  
Degradability: information not available

DIPROPYLENE GLYCOL MONOMETHYL ETHER	
Rapidly degradable	75%

QUARTZ  
Degradability: information not available

QUARTZ  
Degradability: information not available

FELDSPATO  
Degradability: information not available      Sostanza inorganica

MINEMA 1-2-44  
Solubility in water      14 mg/l  
Degradability: information not available      Sostanza inorganica

Castor oil, hydrogenated	
Solubility in water	0,05 mg/l
Rapidly degradable	100%

**12.3. Bioaccumulative potential**

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

Partition coefficient: n-octanol/water	6 Log Kow
BCF	263

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)  
Partition coefficient: n-octanol/water      2,65 Log Kow

DIPROPYLENE GLYCOL MONOMETHYL ETHER  
Partition coefficient: n-octanol/water      0,006 Log Kow  
BCF      < 100

Castor oil, hydrogenated  
Partition coefficient: n-octanol/water      18,75 Log Kow

**12.4. Mobility in soil**

Information not available

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Endocrine disrupting properties**

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

**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.

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

**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

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
not applicable

**SECTION 15. Regulatory information ... / >>**

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-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:

<b>STOT RE 1</b>	Specific target organ toxicity - repeated exposure, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H372</b>	Causes damage to organs through prolonged or repeated exposure.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH205</b>	Contains epoxy constituents. May produce an allergic reaction.

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- 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

## SECTION 16. Other information ... / &gt;&gt;

- 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)
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)
24. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

## Note for users:

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

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

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

Provide appointed staff with adequate training on how to use chemical products.

## CALCULATION METHODS FOR CLASSIFICATION

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

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

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

## Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 16.