

## 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: **P10487**  
Product name: **ResinFIP\_Epobond\_T160\_COMP.A**  
UFI: **0AV0-W017-U00V-0S1R**

#### 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**

<div> <div>Licata S.p.A.</div> <div>P10487 - ResinFIP_Epobond_T160_COMP.A</div> </div>		<div> <div>Revision nr.10</div> <div>Dated 06/08/2025</div> <div>Printed on 06/08/2025</div> <div>Page n. 2 / 15</div> <div>Replaced revision:9 (Dated 12/05/2025)</div> </div> <div>EN</div>
SECTION 2. Hazards identification ... / >>		
<div> <div>Hazard statements:</div> <div> <div>H319</div> <div>H315</div> <div>H335</div> <div>H317</div> <div>H412</div> </div> <div> <div>Causes serious eye irritation.</div> <div>Causes skin irritation.</div> <div>May cause respiratory irritation.</div> <div>May cause an allergic skin reaction.</div> <div>Harmful to aquatic life with long lasting effects.</div> </div> </div>		
<div> <div>Precautionary statements:</div> <div> <div>P280</div> <div>P261</div> <div>P312</div> <div>P403+P233</div> <div>P264</div> <div>P362+P364</div> </div> <div> <div>Wear protective gloves / eye protection / face protection.</div> <div>Avoid breathing dust / fume / gas / mist / vapours / spray.</div> <div>Call a POISON CENTRE / doctor / . . . if you feel unwell.</div> <div>Store in a well-ventilated place. Keep container tightly closed.</div> <div>Wash . . . thoroughly after handling.</div> <div>Take off contaminated clothing and wash it before reuse.</div> </div> </div>		
<div> <div>Contains:</div> <div> <div>FELDSPATO</div> <div>OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS</div> <div>REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)</div> <div>REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)</div> </div> </div>		
2.3. Other hazards		
<div>On the basis of available data, the product does not contain any PBT or vPvB in percentage <math>\geq</math> than 0,1%.</div> <div>The product does not contain substances with endocrine disrupting properties in concentration <math>\geq</math> 0.1%.</div>		
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 $\leq$ 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: $\geq$ 5%, Eye Irrit. 2 H319: $\geq$ 5%
REACH Reg.	01-2119456619-26-0020	
FELDSPATO		
INDEX		24 $\leq$ 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 $\leq$ 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: $\geq$ 5%
REACH Reg.	01-2119454392-40-0010	
QUARTZ		
INDEX		4 $\leq$ 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 $\leq$ 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 $\leq$ x < 2
EC	252-104-2	Substance with a community workplace exposure limit.
CAS	34590-94-8	
REACH Reg.	01-2119450011-60-XXXX	

**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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P10487 - ResinFIP_Epobond_T160_COMP.A			
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	WirkungDosisNOAELMAK-und BAT-Werte-Liste 2024 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe	
ESP	España	Límites de exposición profesional para agentes químicos en España 2024	
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 OPASNIM KEMIČALIJAMA NA RADU, GRANIČNIM VRIJEDNOSTIMA IZLOŽENOSTI I BIOLOŠKIM GRANIČNIM VRIJEDNOSTIMA	
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81	
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti rakotvornim, mutagenim ali reprotoksičnim snovem pri delu. Ljubljana, četrtek 4. 4. 2024	
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 (EU) 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.	
EPY 11.9.0 - SDS 1004.14			

## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

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

## 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 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

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,50 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

## REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,003	mg/l
Normal value in marine water	0,0003	mg/l
Normal value for fresh water sediment	0,294	mg/kg/d
Normal value for marine water sediment	0,0294	mg/kg/d
Normal value for fresh water, intermittent release	0,0254	mg/l
Normal value of STP microorganisms	10	mg/l

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

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				6,25 mg/kg bw/d				
Inhalation				8,7 mg/m3		29,39 mg/m3		
Skin				62,5 mg/kg bw/d	8,3 mg/kg bw/d			104,15 mg/kg bw/d

## REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,006	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,341	mg/kg/d
Normal value for marine water sediment	0,0341	mg/kg/d
Normal value for marine water, intermittent release	0,018	mg/l
Normal value for fresh water, intermittent release	0,002	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,065	mg/kg/d

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

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,5 mg/kg bw/d				
Inhalation				0,87 mg/m3				4,93 mg/m3
Skin								0,75 mg/kg bw/d

## 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	308	50	SKIN
WEL	GBR	308	50			SKIN
OEL	EU	308	50			SKIN

## 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			Effects on workers				
	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

## 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	0,05				RESP
OEL	EU	0,1				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

## 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.

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

### 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	1,47	
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 1:

Category	spheroidal	
Shape	spherical	
D10	7 - 15	nm
D50	2 - 30	nm
D90	10 - 35	nm
Specific surface area by mass	50 - 450	m2/g

#### MINEMA 1-2-44

#### Shape 1:

D50	10	µm
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#### Crystallinity

**SECTION 9. Physical and chemical properties** ... / >>**Crystalline structure 1:****Surface functionalisation / treatment****Surface treatments 1:****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 %	-	20,55	g/litre
VOC (volatile carbon)	0,79 %	-	11,65	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.



**SECTION 10. Stability and reactivity** ... / >>

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)

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

LD50 (Dermal): &gt; 23000 mg/kg Ratto

LD50 (Oral): &gt; 15000 mg/kg Ratto

FELDSPATO

LD50 (Dermal): &gt; 2000 mg/kg Rat

LD50 (Oral): &gt; 2000 mg/kg Rat

LC50 (Inhalation mists/powders): &gt; 5,07 mg/l Rat

MINEMA 1-2-44

LD50 (Dermal): &gt; 2000 mg/kg Ratto

LD50 (Oral): &gt; 2000 mg/kg Ratto

LC50 (Inhalation mists/powders): &gt; 3 mg/l/4h Ratto

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

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)

LD50 (Dermal): &gt; 2000 mg/kg Coniglio

LD50 (Oral): &gt; 2000 mg/kg Ratto

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER

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

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

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

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****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

**MINEMA 1-2-44**

LC50 - for Fish	> 100 mg/l/96h
Chronic NOEC for Algae / Aquatic Plants	> 14 mg/l

**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

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## SECTION 12. Ecological information ... / >>

### 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

### 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

### 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

## 12.2. Persistence and degradability

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

Degradability: information not available

### FELDSPATO

Degradability: information not available      Sostanza inorganica

### MINEMA 1-2-44

Solubility in water      50,05 mg/l 0,1-100  
 Degradability: information not available      Sostanza inorganica

### Castor oil, hydrogenated

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

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

NOT rapidly degradable

### QUARTZ

Degradability: information not available

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

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

### DIPROPYLENE GLYCOL MONOMETHYL ETHER

Rapidly degradable      75%

### QUARTZ

Degradability: information not available

## 12.3. Bioaccumulative potential

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

Partition coefficient: n-octanol/water      2,65 Log Kow

### Castor oil, hydrogenated

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

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

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

### DIPROPYLENE GLYCOL MONOMETHYL ETHER

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

**SECTION 12. Ecological information** ... / >>**12.4. Mobility in soil**

REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)  
Partition coefficient: soil/water 445

DIPROPYLENE GLYCOL MONOMETHYL ETHER  
Partition coefficient: soil/water 0,28

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

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

**12.6. Endocrine disrupting properties**

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

**12.7. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

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

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

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

**14.6. Special precautions for user**

not applicable

## SECTION 14. Transport information ... / &gt;&gt;

## 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

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.

## 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)

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

- 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)
  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)
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  26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
  27. Delegated Regulation (UE) 2024/2564 (XXII 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:

**SECTION 16. Other information** ... / >>

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 / 08 / 09 / 11 / 12 / 13.