

Safety Data Sheet

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

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

1.1. Product identifier

Code: **RPC7219RP0810**
Product name: **Sarpol RP08 - Parte A**

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

Intended use: **Anti-wear coatings**

1.3. Details of the supplier of the safety data sheet

Name: **SARO Srl**
Full address: **Via G. Di Vittorio, 5**
District and Country: **20020 Arconate (MI)**
Italia
tel. **0331453794**

e-mail address of the competent person responsible for the Safety Data Sheet: **amministrazione@sa.ro.it**
SARO Srl

1.4. Emergency telephone number

For urgent inquiries refer to: **IRELAND: National Poisons Information Centre (NPIC): +353 1 8092166**
MALTA: Medicines & poisons info Office 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:

Physical and chemical hazards: the product is not classified for this hazard category.

Health hazards: the product causes severe eye injury and skin irritation.

Environmental hazards: the product is toxic to aquatic organisms, with long-lasting effects.

Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, 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:



Sarpol RP08 - Parte A

Signal words: Danger

Hazard statements:

H318 Causes serious eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P280 Wear protective gloves and eye protection and face protection.
P310 Immediately call a POISON CENTER or a doctor.
P273 Avoid release to the environment.
P391 Collect spillage.
P261 Avoid breathing fume, gas, mist and vapours.

Contains: 1,4-bis-(2,3-epoxypropoxy)-butane
 2,2-bis-[4-(2,3-epoxypropoxy)fenil]-propano
 Calcium oxide

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.
 The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	Concentration. %	Classification (EC) 1272/2008 (CLP)	Specific concentration limits 1272/2008 (CLP)
2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane INDEX 603-073-00-2	35-40*	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411	<i>Skin Irrit. 2 H315: \geq 5%, Eye Irrit. 2 H319: \geq 5%</i>
EC 216-823-5 CAS 1675-54-3			
1,4-bis-(2,3-epoxypropoxy)-butane INDEX 603-072-00-7	3-5*	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412	<i>Not applicable</i>
EC 219-371-7 CAS 2425-79-8		LD50 Oral: 1118 mg/kg, STA Dermal: 1100 mg/kg, STA Inhalation mists/powders: 1,5 mg/l	
REACH Reg. 01-2119494060-45-XXXX			

Sarpol RP08 - Parte A

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE, CARBOXY-TERMINATED, POLYMERS WITH BISPHENOL A AND EPICHLOROHYDRIN

INDEX - 3-5* Aquatic Chronic 2 H411 *Not applicable*
 EC 680-511-9
 CAS 68610-41-3

Calcium oxide

INDEX - 2 – 3* Eye Dam. 1 H318, *Not applicable*
 Skin Irrit. 2 H315,
 STOT SE 3 H335
 EC 215-138-9
 CAS 1305-78-8

REACH Reg. 01-2119475325-36-XXXX

Titanium dioxide

INDEX 022-006-00-2 0,5-1* Carc. 2 H351, *Not applicable*
 Classification note according to Annex VI to the CLP Regulation: 10, V, W
 EC 236-675-5
 CAS 13463-67-7

REACH Reg. 01-2119489379-17-XXXX

Copper (II) oxide

INDEX 029-016-00-6 0,020-0,025* Aquatic Acute 1 H400 M=100, *Not applicable*
 Aquatic Chronic 1 H410 M=10
 EC 215-269-1
 CAS 1317-38-0

*Upper value of range excluded

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures**4.1. Description of first aid measures**

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

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

Treat symptomatically. Consult a doctor.

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 (in particular COx, titanium compounds, and copper compounds).

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

FOR NON-EMERGENCY PERSONNEL

Alert personnel responsible coordinating the response to such emergencies. Move away from the area affected by the accident if you are not in possession of the personal protective equipment listed in section 8.

FOR EMERGENCY RESPONDERS

Evacuate all personnel not suitably equipped to deal with the emergency.

Wear suitable protective clothing and equipment, as set out in section 8 of the safety data sheet, to prevent any contamination of the skin, eyes and personal clothing. Stop leak if safe to do so.

Do not permit workers to access the area affected by the accident until safe conditions have been restored. Ventilate the areas affected.

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 and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. 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, for example strong oxidizers, acids and bases, see section 10 for details.

7.3. Specific end use(s)

No specific end uses are intended other than the relevant uses set out in Section 1.2 of this safety data sheet.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

TLV-ACGIH

ACGIH 2024

The product does not contain substances for which there are Community Occupational Exposure Limits (OELs) or National Occupational Exposure Limits (VLEPs) that require their declaration in this section.

For substances mentioned in this section, DNEL/PNEC values are also reported (although the relevant REACH registration numbers are not available for these substances) in order to convey as much information as possible to enable identification and application of appropriate risk management measures.

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Calcium oxide**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
VLEP	ITA	1	4	RESP
OEL	EU	1	4	RESP
TLV-ACGIH		2		URT irr

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,37	mg/l
Normal value in marine water	0,24	mg/l
Normal value for water, intermittent release	0,37	mg/l
Normal value of STP microorganisms	2,27	mg/l
Normal value for the terrestrial compartment	817,4	mg/kg soil dw

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
Inhalation	4 mg/m3		1 mg/m3		4 mg/m3		1 mg/m3	

Copper (II) oxide**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations	Critical effects
		mg/m3	ppm		
TLV-ACGIH (fume)		0,2			Irritation of the gastrointestinal tract
TLV-ACGIH (dusts and mists)		1			Fever from metal fumes

Predicted no-effect concentration - PNEC

Normal value in fresh water	7,8	µg/l
Normal value in marine water	5,2	µg/l
Normal value for fresh water sediment	87	mg/kg sedim dw
Normal value for marine water sediment	676	mg/kg sedim dw
Normal value of STP microorganisms	230	µg/l
Normal value for the terrestrial compartment	65	mg/kg soil dw

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						0,082 mg/kg bw/d		0,041 mg/kg bw/d
Inhalation							1 mg/m3	1 mg/m3
Skin								137 mg/kg bw/d

Titanium dioxide**Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations	Critical effects
		mg/m3	ppm		
TLV-ACGIH (nanoparticles)		2,5		A3	Irritation of the lower

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TLV-ACGIH (fine particles) 0,2 A3 respiratory tract
Eye irritation

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
Inhalation			210 µg/m³				1,25 mg/m³	

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane

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
Normal value for marine water sediment	0,034	mg/kg
Normal value for water, intermittent release	0,018	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	11	mg/kg
Normal value for the terrestrial compartment	0,065	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				0,5 mg/kg bw/d				
Inhalation				0,87 mg/m3				4,93 mg/m3
Skin				89,3 µg/kg bw/d				0,75 mg/kg bw/d

1,4-bis-(2,3-epoxypropoxy)-butane

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,024	mg/l
Normal value in marine water	0,002	mg/l
Normal value for fresh water sediment	0,084	mg/kg
Normal value for marine water sediment	0,008	mg/kg
Normal value for marine water, intermittent release	0,24	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	0,028	mg/kg
Normal value for the terrestrial compartment	0,003	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				0,33 mg/kg bw/d				
Inhalation				1,16 mg/m3				4,7 mg/m3
Skin				3,33 mg/kg bw/d				6,66 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.

HAND PROTECTION

Protect hands with category III, at least type B, work gloves that protect against aromatic hydrocarbons (class F), saturated hydrocarbons (class J) and heterocyclic and ether compounds (class H). Recommended materials: PVA, fluorinated rubber or related.

For final selection of work glove material (ref. EN 374), the following should be considered: compatibility, degradation, breakthrough time and permeation.

For the final choice of work glove material, the process of use of the product and any additional products resulting from it should also be considered. It should also be remembered that latex gloves can give rise to sensitization phenomena.

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. Provide an emergency shower with face and eye wash station.

EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

The use of an FFP3 type filtering facemask is recommended (ref. standard EN 149) associated with a mask with a type A filter whose class (1, 2 or 3) should be chosen in relation to the limit concentration of use. (ref. standard EN 14387).

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	paste
Colour	grey	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	> 250 °C	
Flammability	not flammable	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	300 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not applicable	The product is not soluble in water
Kinematic viscosity	>20,55 mm ² /s	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	not applicable	The product is a mixture
Vapour pressure	<700 mBar	
Density and/or relative density	2,33 G/cm ³	
Relative vapour density	>1	

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Particle characteristics not applicable The product is liquid

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Information not available

9.2.2. Other safety characteristics
Information not available

SECTION 10. Stability and reactivity**10.1. Reactivity**

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidizers, acids and bases

10.6. Hazardous decomposition products

By thermal decomposition, gases and vapors potentially harmful to health can be released (in particular COx, titanium and copper compounds).

SECTION 11. Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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.

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

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

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Calcium oxide

LD50 (Dermal):	> 2500 mg/kg bw Coniglio
LD50 (Oral):	> 2000 mg/kg bw Ratto
LC50 (Inhalation mists/powders):	> 6,04 mg/l/4h Ratto

Copper (II) oxide

LD50 (Dermal):	> 2000 mg/kg bw Ratto
LD50 (Oral):	> 2500 mg/kg bw Ratto

Titanium dioxide

LD50 (Oral):	> 5000 mg/kg Ratto, OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down)
LC50 (Inhalation mists/powders):	3,43 mg/l/4h Ratto

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane

LD50 (Dermal):	23,032 mg/kg Coniglio
LD50 (Oral):	19800 mg/kg Ratto

1,4-bis-(2,3-epoxypropoxy)-butane

LD50 (Dermal):	> 2150 mg/kg Ratto
STA (Dermal):	1100 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)
LD50 (Oral):	1118 mg/kg Ratto

2-PROPENENITRILE, POLYMER WITH 1,3-BUTADIENE, CARBOXY-TERMINATED, POLYMERS WITH BISPHENOL A AND EPICHLOROHYDRIN

LD50 (Dermal):	2500 mg/kg ATE dermico
LD50 (Oral):	2500 mg/kg ATE orale

SKIN CORROSION / IRRITATION

On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is classified as **Skin irrit. 2, H315**

SERIOUS EYE DAMAGE / IRRITATION

On the basis of available data and in view of the classification criteria set forth in table 3.3.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is classified as **Eye dam. 1, H318**

RESPIRATORY OR SKIN SENSITISATION

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is classified as **Skin Sens. 1, H317**

GERM CELL MUTAGENICITY

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

CARCINOGENICITY

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

REPRODUCTIVE TOXICITY

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class

STOT - SINGLE EXPOSURE

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

STOT - REPEATED EXPOSURE

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

ASPIRATION HAZARD

On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is not classified 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**12.1. Toxicity**

Based on the evaluation of the classification of components and the classification provisions set out in Annex I, Part 4 of Reg. (EC) 1272/2008 and subsequent amendments, the mixture is classified as environmentally hazardous with long-term effects. **Aq. Chronic 2, H411.**

Calcium oxide

LC50 - for Fish	50,6 mg/l/96h Oncorhynchus mykiss, CaOH2
EC50 - for Crustacea	49,1 mg/l/48h Daphnia magna, CaOH2
EC50 - for Algae / Aquatic Plants	184,57 mg/l/72h Pseudokirchneriella subcapitata, CaOH2
Chronic NOEC for Crustacea	32 mg/l 14d, Crangon septemspinosa
Chronic NOEC for Algae / Aquatic Plants	48 mg/l 72h, CaOH2, Pseudokirchneriella subcapitata

Copper (II) oxide

LC50 - for Fish	38,4 µg/L Pimephales promelas calculated using Trimmed Spearman Karber method
EC50 - for Crustacea	109 µg/l/48h Daphnia Magna - WoE
Chronic NOEC for Fish	13 µg/l 60 giorni; other: Salvelinus fontinalis and Ictalurus punctatus, solfato
Chronic NOEC for Algae / Aquatic Plants	15,7 µg/l 72h; other Raphidocelis subcapitata

Titanium dioxide

EC50 - for Crustacea	> 100 mg/l/48h Daphnia Magna
Chronic NOEC for Crustacea	> 10 mg/l 21 giorni - Daphnia Magna

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]propane

LC50 - for Fish	1,5 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	1,1 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	9,1 mg/l/72h Scenedesmus capricornutum
Chronic NOEC for Crustacea	0,3 mg/l Daphnia magna, 21 days

1,4-bis-(2,3-epoxypropoxy)-butane

LC50 - for Fish	24 mg/l/96h Danio rerio
EC50 - for Algae / Aquatic Plants	110 mg/l/72h Raphidocelis subcapitata

12.2. Persistence and degradability

Titanium dioxide	
Solubility in water	< 0,001 mg/l

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessmentOn 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.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information**14.1. ONU number or ID number**

ADR / RID, IMDG, IATA: ONU 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to ADR provisions.IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to IMDG Code provisions.IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to IATA dangerous goods regulations.**14.2. ONU proper shipping name**

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2-bis-[4-(2,3-epoxy)phenyl]-propane, 2-

propenenitrile, polymer with 1,3-butadiene, carboxy-terminated, polymers with bisphenol A and epichlorohydrin)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2-bis-[4-(2,3-epoxy)phenyl]-propane, 2-

propenenitrile, polymer with 1,3-butadiene, carboxy-terminated, polymers with bisphenol A and epichlorohydrin)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2-bis-[4-(2,3-epoxy)phenyl]-propane, 2-

propenenitrile, polymer with 1,3-butadiene, carboxy-terminated, polymers with bisphenol A and epichlorohydrin)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

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14.5. Environmental hazards

ADR / RID: NO
 IMDG: NO
 IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special provision: 274, 335, 375, 601		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Passengers:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	

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

Biocidal Products Regulation (Reg. (EU) 528/2012): not applicable

Detergent regulations (Reg. (EC) 648/2004): not applicable

Dir. 2004/42/EC - VOC/Italian Leg. Decr. 161/2006: not applicable

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

Contained substance

Point	75	Titanium dioxide
Point	75	2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane
Point	75	1,4-bis-(2,3-epoxypropoxy)-butane

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.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 2: Hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

Titanium dioxide

1,4-bis-(2,3-epoxypropoxy)-butane

Calcium Oxide

SECTION 16. Other information

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

Carc. 2	Carcinogenicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
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
H351	Suspected of causing cancer.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H318	Causes serious eye damage.
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.

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- Note 10** Classification as an inhalation carcinogen applies only to mixtures in the form of dust containing ≥ 1 % titanium dioxide in the form of, or incorporated into, particles with an aerodynamic diameter ≤ 10 μm .
- Note V** When the substance is to be placed on the market in the form of fibers (diameter < 3 μm , length > 5 μm , and aspect ratio $\geq 3:1$) or particles that meet the WHO fiber criteria or in the form of particles having a modified surface chemistry, the hazardous properties must be evaluated in accordance with Title II of this regulation to ascertain whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal route) should be applied.
- Note W** It has been observed that the carcinogenicity hazard of the substance arises when the amount of respirable dust inhaled is such that the lung mechanisms of particle expulsion are significantly impaired.
This note is intended to describe the particular toxicity of the substance and is not a classification criterion under this Regulation.

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).
- A1 = Confirmed Human Carcinogen
- A2 = Suspected Human Carcinogen
- A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans
- A4 = Not Classifiable as a Human Carcinogen
- A5 = Not Suspected as a Human Carcinogen
- IBE = Biological Indicators of Exposure.

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

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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

- 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

CALCULATION METHODS

Chemical-physical hazards: the dangerousness has been derived from the classification criteria of CLP Regulation Annex I Part 2 as amended and added.

Health hazards have been assessed with the calculation method set out by Reg. (EC) 1272/2008 (CLP) as amended and added for the classification of mixtures when data are available on all components of the mixture or some of them:

Acute Tox: application of criteria in Table 3.1.1. Annex I Part 3 of CLP Regulation as amended and added.

Skin Corr. 1A/1B/1C H314: application of additivity formula criteria in Table 3.2.3 Annex I Part 3 of CLP Regulation

Skin Irrit. 2 H315: application of additivity formula criteria in Table 3.2.3 Annex I Part 3 of CLP Regulation

Eye Dam 1 H318: application of additivity formula criteria in Table 3.3.3 Annex I Part 3 of CLP Regulation

Eye Irrit. 2 H319: application of the additivity formula criteria in Table 3.3.3 Annex I Part 3 of CLP Regulation

Eye Irrit. 2 H319: table 3.3.3 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.

Skin Sens 1A/1B/1 H317 Table 3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.

Resp Sens 1A/1B/1 H334 Table 3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.

Muta. 1A/1B, 2 H340 - H341: table 3.5.2 Annex I Part 3 of CLP Regulation as amended and added.

Carc 1A/1B, 2 H350 - H351: table 3.6.2 Annex I Part 3 of CLP Regulation as amended and added.

Repr 1A/1B, 2 H360 - H361: table 3.7.2 Annex I Part 3 of CLP Regulation as amended and added.

STOT SE 1, 2 H370 - 371: application of the calculation methods - table 3.8.3 of Ann. I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.

STOT SE 3 H336: ch. 3.8.3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.

STOT RE 1, 2 H372 - H373: table 3.9.4 Annex I Part 3 of CLP Regulation as amended and added.

Asp Tox 1 H304: application of criteria 3.10 Annex I Part 3 of CLP Regulation as amended and added.

Environmental hazards have been assessed with the calculation method set out by Reg. (EC) 1272/2008 (CLP) as amended and added for the classification of mixtures when data are available on all components of the mixture or some of them:

toxicity for the aquatic environment acute effects: table 4.1.1 of Annex I, Part 4 of Reg. (EC) 1272/2008 (CLP) as amended and added;

toxicity for the aquatic environment chronic effects: table 4.1.2 of Annex I, Part 4 of Reg. (EC) 1272/2008 (CLP) as amended and added.

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.

Sections revised from previous version: ALL.