Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758



Dac-Hydro-Alu

SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: Dac-Hydro-Alu
Product description	: Paint
Product type	: Liquid.
UFI	: RCF1-C0YN-400P-3HRW

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

Identified uses	
Industrial Professional	
Uses advised against	Reason
Consumer	Product is not intended for consumer use.

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

RUST-OLEUM EUROPE Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium Telephone no.: +32 (0) 13 460 200 Fax no.: +32 (0) 13 460 201

Tor Coatings Limited Unit 21, White Rose Way, Follingsby Park, Gateshead, Tyne & Wear, NE10 8YX United Kingdom Telephone no.: +44 (0) 191 4106611 Fax no.: +44 (0) 191 4920125 enquiries@tor-coatings.com

#### e-mail address of person : rpmeurohas@rustoleum.eu responsible for this SDS

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Supplier** 

Telephone number United Kingdom:: +44 870 8200418 / +44 2038073798Great BritainHours of operation: 24 / 7

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### **Classification according to UK CLP/GHS**

Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 16/11/2023 Version : 11

1/20

## **SECTION 2: Hazards identification**

2.2 Label elements		
Hazard pictograms	:	▲
Signal word	:	Warning
Hazard statements	:	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
General	4	Not applicable.
Prevention	1	P280 - Wear protective gloves.
Response	1	Not applicable.
Storage	1	Not applicable.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Octene, hydroformylation products, high-boiling Nickel
		Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol 1,2-benzisothiazol-3(2H)-one 2-octyl-2H-isothiazol-3-one
Supplemental label elements	:	EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Supplemental label elements : Detergents - Regulation (EC) No 907/2006	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

# **SECTION 3: Composition/information on ingredients**

Product/ingredient name	Identifiers	%	Classification	Туре
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
ammonia	REACH #: 01-2119488876-14 EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2	≤0,3	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	[1]
Octene, hydroformylation products, high-boiling	REACH #: 01-2119486463-31 EC: 271-237-7 CAS: 68526-89-6	≤0,3	Skin Sens. 1B, H317	[1]
Nickel	EC: 231-111-4 CAS: 7440-02-0 Index: 028-002-00-7	≤0,3	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 3, H412	[1]
Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol	REACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5	<0,1	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	[1]
1,2-benzisothiazol-3(2H)-one	REACH #: 01-2120761540-60 EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0,036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
pyrithione zinc	REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7 Index: 613-333-00-7	<0,01	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1,	[1]
2-octyl-2H-isothiazol-3-one	REACH #: 17-2119390467-28 EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5	≤0,013	H410 (M=10) Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1]
terbutryn	EC: 212-950-5 CAS: 886-50-0	≤0,011	EUH071 Acute Tox. 4, H302 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=100)	[1]

SECTION 3: Composition/information on ingredients		
		Aquatic Chronic 1, H410 (M=100)
		See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

This mixture contains  $\geq$  1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Over-exposure signs/s	<u>ymptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

Date of issue/Date of revision

4/20

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

Dac-Hydro-Alu			
SECTION 4: First aid measures			
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.		
Specific treatments	: No specific treatment.		
<b>SECTION 5: Firefigh</b>	ting measures		
5.1 Extinguishing media			
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.		
Unsuitable extinguishing media	: None known.		
5.2 Special hazards arising	rom the substance or mixture		
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.		
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides		
5.3 Advice for firefighters			
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.		
Additional information	: No unusual hazard if involved in a fire.		

# SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	СС	ontainment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop
	up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry
	material and place in an appropriate waste disposal container. Dispose of via a
	licensed waste disposal contractor.

SECTION 6: Accidental release measures		
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.	
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.	

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 4 to 26°C (39,2 to 78,8°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

#### **Biological exposure indices**

No exposure indices known.

Recommended monitoring procedures	:	Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres -
		Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for

# **SECTION 8: Exposure controls/personal protection**

methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
ammonia	DNEL	Short term Inhalation	36 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	14 mg/m³	Workers	Local
	DNEL	Short term Inhalation	47,6 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	47,6 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	6,8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	6,8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2,8 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	23,8 mg/m <sup>3</sup>		Systemic
	DNEL	Short term Dermal	68 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	6,8 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	6,8 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	28 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	14 mg/m <sup>3</sup>	Workers	Local
Octene, hydroformylation products, high-boiling	DNEL	Long term Oral	25 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	50 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	87 mg/m³	General population	Systemic
	DNEL	Long term Dermal	116,7 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	411,4 mg/ m³	Workers	Systemic
Formaldehyde, oligomeric reaction products with 1-chloro-	DNEL	Short term Dermal	83 mg/cm <sup>2</sup>	Workers	Local
2,3-epoxypropane and phenol	DNEL	Long term Dermal	104,15 mg/	Workers	Systemic
	DNEL	Long term	kg bw/day 29,39 mg/	Workers	Systemic
	DNEL	Inhalation Long term Dermal	m³ 62,5 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	8,7 mg/m³	[Consumers] General population	Systemic
	DNEL	Long term Oral	6,25 mg/ kg bw/day	[Consumers] General population [Consumers]	Systemic
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Inhalation	6,81 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	1,2 mg/m³	General population	Systemic
	DNEL	Long term Dermal	0,966 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0,345 mg/	General	Systemic

### **SECTION 8: Exposure controls/personal protection**

-		kg bw/	day population	

Product/ingredient name	<b>Compartment Detail</b>	Value	Method Detail
ammonia	Fresh water	0,0011 mg/l	-
	Marine water	0,0011 mg/l	-
	Fresh water	0,165 mg/l	-
	Marine water	0,0165 mg/l	-
	Sewage Treatment Plant	8,58 mg/l	-
	Fresh water sediment	0,0165 mg/kg	-
	Soil	32,3 mg/kg	-
Octene, hydroformylation products, high- boiling	Fresh water	0,1 mg/l	-
Ĵ.	Marine water	0,01 mg/l	-
	Sewage Treatment Plant	100 mg/l	-
	Fresh water sediment	4000 mg/kg	-
	Marine water sediment	400 mg/kg	-
	Soil	1,25 mg/kg	-
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Fresh water	0,003 mg/l	-
	Marine water	0,0003 mg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	0,294 mg/kg dwt	-
	Marine water sediment	0,0294 mg/kg dwt	-
	Soil	0,237 mg/kg dwt	-
1,2-benzisothiazol-3(2H)-one	Fresh water	0,00403 mg/l	-
,	Marine water	0,000403 mg/l	-
	Sewage Treatment Plant	1,03 mg/l	-
	Fresh water sediment	0,0499 mg/kg dwt	-
	Marine water sediment	0,00499 mg/kg dwt	-
	Soil	3 mg/kg dwt	-
pyrithione zinc	Fresh water	0,00009 mg/l	-
-	Marine water	0,00009 mg/l	-
	Sewage Treatment Plant	0,01 mg/l	-
	Marine water sediment	0,0095 mg/kg	-
	Fresh water sediment	0,0095 mg/kg	-

8.2 Exposure controls **Appropriate engineering** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants. controls Individual protection measures : Wash hands, forearms and face thoroughly after handling chemical products, **Hygiene measures** before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that evewash stations and safety showers are close to the workstation location. **Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. **Skin protection** 

## **SECTION 8: Exposure controls/personal protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Hand protection	worn at all times when handling chemi is necessary. Considering the param ck during use that the gloves are still r ould be noted that the time to breakthro	s. In the case of mixtures, consisting of final field of the gloves cannot be accurately
		following source: EN374. The user must e selected for handling this product is the
Body protection	sonal protective equipment for the boon ng performed and the risks involved ar ore handling this product. Recommen eved shirt.	
Other skin protection	propriate footwear and any additional s ected based on the task being perform proved by a specialist before handling t	ed and the risks involved and should be
Respiratory protection	propriate standard or certification. Respiratory protection program to ensure protection protection program to ensure protection protec	posure, select a respirator that meets the spirators must be used according to a proper fitting, training, and other important vapour filter (Type A) particulate filter (EN
Environmental exposure controls		s of environmental protection legislation. engineering modifications to the process

### **SECTION 9: Physical and chemical properties**

: 28/05/2024

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

Date of issue/Date of revision

Physical state	: Liquid.
Colour	: Silver.
Odour	: Characteristic.
Odour threshold	: Not available.
Melting point/freezing point	: 0°C [Literature]
Initial boiling point and boiling range	: >100°C (>212°F) [Literature]
Flammability (solid, gas)	: Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Non-flammable but will burn on prolonged exposure to flame or high temperature.
Lower and upper explosion limit	: Not available.

Date of previous issue

## **SECTION 9: Physical and chemical properties**

ŝ

Flash point	: Closed cup: >100°C (>212°F) [Literature] [Product does not sustain combustion.]
Auto-ignition temperature	: Not relevant due to nature of the product.
Decomposition temperature	: Not available.
рН	: 8 to 9 [Conc. (% w/w): 100%] [OECD 122]
pH : Justification	: Not available.
Viscosity	<ul> <li>Dynamic (room temperature): 5000 to 6000 mPa⋅s [ISO EN BS DIN 3219] Kinematic (room temperature): 4505 to 5555 mm²/s [calculated.] Kinematic (40°C): &gt;20,5 mm²/s [calculated.]</li> </ul>

### Solubility(ies)

Media		Result
cold water hot water methanol acetone		Soluble Soluble Very slightly soluble Very slightly soluble
Solubility in water	:	Not available.
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapour pressure	1	2,3 kPa (17,25 mm Hg) [Literature]
Evaporation rate	1	<1 (butyl acetate = 1)
Relative density	1	Not available.
Density	1	1,08 to 1,11 g/cm³ [20°C (68°F)] [DIN 53217]
Vapour density	1	>1 [Air = 1]
Explosive properties	:	Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. No unusual hazard if involved in a fire.
Oxidising properties Particle characteristics	:	Not available.
Median particle size	÷	Not applicable.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredient	ls.
10.2 Chemical stability	: The product is stable.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: No specific data.	
10.5 Incompatible materials	: No specific data.	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]	LD50 Dermal	Rabbit	20 g/kg	-
bisoxirane				
ammonia	LC50 Inhalation Vapour	Human/30 min	0	0,5 hours
	LC50 Inhalation Vapour	Rat	7035 mg/m³	30 minutes
	LC50 Inhalation Vapour	Rat	2000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	350 mg/kg	-
1,2-benzisothiazol-3(2H)- one	LC50 Inhalation Dusts and mists	Rat	0,11 mg/l	4 hours
	LC50 Inhalation Dusts and mists	Rat - Male, Female	0,5 mg/l	4 hours
	LD50 Oral	Rat - Male	490 mg/kg	-
pyrithione zinc	LC50 Inhalation Dusts and mists	Rat	140 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	177 mg/kg	-
2-octyl-2H-isothiazol-3-one	LC50 Inhalation Dusts and mists	Rat	0,27 mg/l	4 hours
	LD50 Oral	Rat	248 mg/kg	-
terbutryn	LC50 Inhalation Dusts and mists	Rat	>2200 mg/l	4 hours
	LD50 Dermal	Rabbit	>10200 mg/kg	-
	LD50 Oral	Rat	2045 mg/kg	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Dac-Hydro-Alu	N/A	N/A	N/A	1460,3	N/A
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane	N/A	20000	N/A	N/A	N/A
ammonia	350	N/A	N/A	2	N/A
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0,21
pyrithione zinc	221	100	N/A	N/A	0,14
2-octyl-2H-isothiazol-3-one	125	311	N/A	N/A	0,27
terbutryn	500	N/A	N/A	N/A	N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
ammonia	Eyes - Severe irritant	Rabbit	-	0,5 minutes 1 milligrams	-
	Eyes - Severe irritant	Rabbit	-	250 Micrograms	-
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Skin - Erythema/Eschar	Rabbit	0,7	4 hours	72 hours
	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-
2-octyl-2H-isothiazol-3-one	Eyes - Severe irritant	Rabbit	-	-	-
terbutryn	Eyes - Moderate irritant	Rabbit	-	76 milligrams	-

## **SECTION 11: Toxicological information**

	<u></u>					
	Skin - Mild irritant	Rabbit	-	380 milligrams	-	
Skin	: Based on available data,	the classification	criteria a	re not met.		
Eyes	: Based on available data,	the classification	criteria a	re not met.		

**Respiratory** : Based on available data, the classification criteria are not met.

#### **Respiratory or skin sensitization**

Product/ingredient name	Route of exposure	Species	Result
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	skin	Guinea pig	Sensitising
	skin	Mouse	Sensitising
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	skin	Guinea pig	Sensitising
1,2-benzisothiazol-3(2H)-one	skin	Guinea pig	Sensitising
2-octyl-2H-isothiazol-3-one	skin	Rat	Sensitising

Skin

: May cause an allergic skin reaction.

Respiratory

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	OECD 476	Experiment: In vitro Subject: Mammalian-Animal	Positive
	OECD 471 OECD 474	Subject: Bacteria Subject: Mammalian-Animal	Positive Negative

: Based on available data, the classification criteria are not met.

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**Carcinogenicity** 

Conclusion/Summary

: Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Negative	-	-		Oral: 540 mg/kg	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

**Teratogenicity** 

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	Positive - Dermal	Rabbit	300 mg/kg	1 days per week
	Positive - Oral	Rabbit	180 mg/kg	1 days per week
	Positive - Oral	Rat	180 mg/kg	1 days per week
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Negative - Route of exposure unreported	Rabbit - Female	>300 mg/kg	-
	Positive - Dermal	Rabbit	300 mg/kg	6 hours; 7 days per week
	Positive - Dermal	Rabbit	100 mg/kg	6 hours; 7 days per week

## **SECTION 11: Toxicological information**

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ammonia	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Nickel pyrithione zinc	Category 1 Category 1	-	-

#### **Aspiration hazard**

Not available.

Information on likely routes of exposure	:	Routes of entry anticipated: Oral, Inhalation, Eyes. Routes of entry not anticipated: Dermal.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<u>Short term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
<u>Long term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health eff	<u>s</u>	
Not available.		
<b>Conclusion/Summary</b>	Based on available data, the classification criteria are not met.	
General	Once sensitized, a severe allergic reaction may occur when subsequently export to very low levels.	osed
Carcinogenicity	No known significant effects or critical hazards.	
Mutagenicity	No known significant effects or critical hazards.	
Reproductive toxicity	No known significant effects or critical hazards.	
Other information	Not available.	
Date of issue/Date of revision	: 28/05/2024 Date of previous issue : 16/11/2023 Version : 11	13/20

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ammonia	Acute EC50 110 mg/l	Daphnia spec Daphnia spec.	48 hours
	Acute LC50 17 mg/l	Fish - Goldfish (carassius	24 hours
		auratus)	
	Acute LC50 7 mg/l	Fish - Fathead minnow	48 hours
	Acute LC50 0,89 mg/l	Fish - Rainbow trout	96 hours
		(oncorhynchus mykiss)	oo noaro
	Acute LC50 15000 µg/l Fresh water	Fish - Western mosquitofish -	96 hours
	Acute LC50 15000 µg/i Flesh water		90 110015
		<i>Gambusia affinis</i> - Adult	07.1
	Acute NOEC 0,06 mg/l	Fish - Lctalurus punctatus	27 days
	Chronic NOEC 0,42 mg/l	Daphnia spec.	21 days
	Chronic NOEC 0,79 mg/l	Daphnia spec.	96 hours
Nickel	Acute EC50 2 ppm Marine water	Algae - Giant kelp - <i>Macrocystis</i>	4 days
		<i>pyrifera</i> - Young	
	Acute EC50 450 µg/l Fresh water	Aquatic plants - Duckweed -	4 days
		Lemna minor	-
	Acute EC50 1000 μg/l Marine water	Daphnia spec Water flea -	48 hours
		Daphnia magna	io nouro
	Acute IC50 0,31 mg/l Marine water	Crustaceans - Opossum shrimp	48 hours
	Acute 1050 0,51 mg/i Manne water		40 110015
		- Americamysis bahia - Juvenile	
		(Fledgling, Hatchling, Weanling)	
	Acute LC50 47,5 ng/L Fresh water	Fish - Indian catfish -	96 hours
		Heteropneustes fossilis	
	Chronic NOEC 100 mg/l Marine water	Algae - Dinoflagellate -	72 hours
	ő	Glenodinium halli	
	Chronic NOEC 3,5 µg/l Fresh water	Fish - common carp - Cyprinus	4 weeks
		carpio	1 Hooke
Formaldohyda, oligomoria	Acute EC50 1,8 mg/l	Algae	72 hours
Formaldehyde, oligomeric	Acute EC50 1,6 mg/l	Algae	12 nours
reaction products with			
1-chloro-2,3-epoxypropane			
and phenol			
	Acute EC50 2 mg/l	Daphnia spec.	24 hours
	Acute EC50 1,6 mg/l	Daphnia spec.	48 hours
	Acute IC50 >100 mg/l	Bacteria	3 hours
	Acute LC50 0,55 mg/l	Fish	96 hours
	Acute LC50 2 mg/l	Fish	96 hours
	Chronic NOEC 0,3 mg/l	Daphnia spec.	21 days
1,2-benzisothiazol-3(2H)-one		Algae - Algae	72 hours
	Acute EC50 0,067 mg/l	Algae - Pseudokirchneriella	72 hours
		subcapitata	
	Acute EC50 0,9893 mg/l Marine water	Crustaceans - Opossum Shrimp	96 hours
	Acute EC50 2,94 mg/l Fresh water	Daphnia spec Daphnia spec.	48 hours
	Acute LC50 2,18 mg/l Fresh water	Fish - Rainbow trout	96 hours
		(oncorhynchus mykiss)	50 110013
			OC hours
	Acute LC50 8 to 13 mg/l	Fish - Alburnus alburnus	96 hours
	Acute LC50 1,6 to 2,8 ppm Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
	Chronic NOEC 90 mg/l	Aquatic plants - <i>Phaseolus</i>	20 days
		vulgaris	
	Chronic NOEC 1,2 mg/l	Daphnia spec Daphnia spec.	21 days
	Chronic NOEC 0,21 mg/l	Fish - Rainbow trout	28 days
		(oncorhynchus mykiss)	20 dayo
	Chronic NOEL 0.0402 mg/l		70 hours
	Chronic NOEL 0,0403 mg/l	Algae - Algae	72 hours
pyrithione zinc	Acute EC50 0,51 µg/l Marine water	Algae - Diatom - <i>Thalassiosira</i>	96 hours
		pseudonana	
	Acute EC50 80 µg/l Fresh water	Crustaceans - Water flea -	48 hours
		Chydorus sphaericus	
	Acute EC50 38 µg/l Fresh water	Crustaceans - Ostracod -	48 hours
		Ilyocypris dentifera	
	Acute EC50 8,25 ppb Fresh water	Daphnia spec Water flea -	48 hours
	Aute LOUD 0,20 ppb 1 lesit water		
		Daphnia magna	
	l	l	I
ate of issue/Date of revision	: 28/05/2024 Date of previous issue	: 16/11/2023 Version	:11 14,

48 hours

96 hours

96 hours

21 days

48 hours

72 hours

96 hours

SECTION 12: Ecolog	-	Daphpia apag Mater flag
	Acute EC50 61 µg/l Fresh water	Daphnia spec Water flea - <i>Daphnia magna</i> - Nauplii
	Acute LC50 2,68 ppb Fresh water	Fish - Fathead minnow - <i>Pimephales promelas</i>
	Chronic EC10 0,36 µg/l Marine water	Algae - Diatom - <i>Thalassiosira pseudonana</i>
	Chronic NOEC 2,7 ppb Marine water	Daphnia spec Water flea - Daphnia magna
2-octyl-2H-isothiazol-3-one	Acute EC50 0,32 to 0,834 mg/l Fresh water	Daphnia spec Water flea - Daphnia magna
	Acute IC50 0,084 mg/l	Algae - Scenedesmus subspicatus
	Acute LC50 0,0655 to 0,104 mg/l	Fish - Rainbow trout
	Fresh water	(oncorhynchus mykiss)
	Acute LC50 0,14 to 0,202 mg/l Fresh	Fish - Fathead minnow -
	water	Pimephales promelas
terbutryn	Acute EC50 0,1 µg/l Fresh water	Algae - Diatom - <i>Fragilaria</i>

	Fresh water	(oncorhynchus mykiss)	
	Acute LC50 0,14 to 0,202 mg/l Fresh	Fish - Fathead minnow -	96 hours
	water	Pimephales promelas	
terbutryn	Acute EC50 0,1 µg/l Fresh water	Algae - Diatom - Fragilaria	96 hours
		capucina ssp. rumpens	
	Acute EC50 2 µg/l Fresh water	Algae - Green algae -	72 hours
		Pseudokirchneriella subcapitata	
	Acute EC50 2,66 ppm Fresh water	Daphnia spec Water flea -	48 hours
		Daphnia magna	
	Acute IC50 0,0055 mg/l	Algae	72 hours
	Acute LC50 579,3 mg/l Fresh water	Crustaceans - Signal crayfish -	48 hours
		Pacifastacus leniusculus -	
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Acute LC50 1,8 to 1400 µg/l Fresh	Fish - Crucian carp - Carassius	96 hours
	water	carassius	
	Acute LC50 0,82 ppm Fresh water	Fish - Rainbow trout,donaldson	96 hours
		trout - Oncorhynchus mykiss	
	Chronic EC10 0,015 µg/l Fresh water	Algae - Diatom - Fragilaria	96 hours
		capucina ssp. rumpens	

**Conclusion/Summary** 

: Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	OECD 301B	6 to 12 % - Not readily - 28 days	-	-
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	OECD 301B	16 % - Not readily - 28 days	-	-
	-	0 % - Not readily - 28 days	-	-
1,2-benzisothiazol-3(2H)-one	OECD 303A	>90 % - Readily - 1 days	-	-
2-octyl-2H-isothiazol-3-one	OECD 303A	>80 % - Readily - 4 days	-	-
	OECD 309	90 % - Readily - 4 days	0,01 to 0,1 mg/l	-
	OECD 309	50 % - Readily - 2 days	0,01 to 0,1 mg/l	-

	0ECD 309	50 % - Readily - 2 0	days	0,01 to 0,1 mg/l	-	
Conclusion/Summary	: This product ha	as not been tested fo	or biodegrada	ation.		
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradal	bility
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane ammonia Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol			-		Not readily Readily Not readily	
1,2-benzisothiazol-3(2H)-one	-		-		Readily	
ate of issue/Date of revision	: 28/05/2024	ate of previous issue	: 16/11/2	023 V	Version : 11	15/20

## **SECTION 12: Ecological information**

2-octyl-2H-isothiazol-3	-one	Fresh water 2 days, 20°C	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	3,84	3 to 31	Low
ammonia	-1,3	_	Low
Octene, hydroformylation products, high-boiling	>3.8	-	High
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane	2,7	150	Low
and phenol	0.04		
1,2-benzisothiazol-3(2H)-one pyrithione zinc	0,64 0,9	- 11	Low Low
2-octyl-2H-isothiazol-3-one	2,9	-	Low
terbutryn	3,74	-	Low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Nonvolatile liquid.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### **12.6 Other adverse effects** : No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

#### 13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

#### Waste catalogue

Waste code	Waste designation
08 01 15*	aqueous sludges containing paint or varnish containing organic solvents or other hazardous substances
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

# user

**14.6 Special precautions for** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### 14.7 Transport in bulk : Not available. according to IMO instruments

### **SECTION 15: Regulatory information**

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

#### UK (GB)/REACH

Annex XIV - List of substances subject to authorisation **Annex XIV** 

None of the components are listed above the relevant limit.

#### Substances of very high concern

None of the components are listed above the relevant limit.

#### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name		%	Designation [Usage]
Dac-Hydro-Alu Nickel		≥90 ≤0,3	3 27
Labelling	: Not applica	ble.	
Other EU regulations			
VOC			ctive 2004/42/EC on VOC apply to this product. Refer to the chnical data sheet for further information.
VOC for Ready-for-Use Mixture	: 2004/42/E0	C - IIA/i: 140	0g/l (2010). <= 70g/l VOC.
Industrial emissions (integrated pollution prevention and control) - Air	: Listed		

## **SECTION 15: Regulatory information**

SECTION 15. Regulate	ny mormation
(integrated pollution	Listed
prevention and control) - Water	
Ozone depleting substances	
Not listed.	
Prior Informed Consent (PIC	1
Not listed.	
Persistent Organic Pollutant Not listed.	<u>s</u>
Seveso Directive	
This product is not controlled ur	der the Seveso Directive
EU regulations	
	Listed
(integrated pollution	
prevention and control) - Air	
	Listed
(integrated pollution	
prevention and control) -	
Water	
International regulations	n List Schedules I, II & III Chemicals
Not listed.	
<u>Montreal Protocol</u>	
Not listed.	
Stockholm Convention on Pe	r <u>sistent Organic Pollutants</u>
Not listed.	
Rotterdam Convention on Price	or Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol on P	OPs and Heavy Metals
Not listed.	
<b>CN code</b> : 3209 10 00 00	)
Inventory list	
Australia :	At least one component is not listed.
Canada :	At least one component is not listed.
China :	At least one component is not listed.
Eurasian Economic Union :	······································
Japan :	Japan inventory (CSCL): At least one component is not listed. Japan inventory (ISHL): Not determined.
New Zealand :	At least one component is not listed.
Philippines :	At least one component is not listed.
Republic of Korea :	Not determined.
	At least one component is not listed.
	Not determined.
	Not determined.
	Not determined.
Viet Nam :	Not determined.

# **SECTION 15: Regulatory information**

15.2 Chemical safety	1	This product contains substances for which Chemical Safety Assessments are still
assessment		required.

## **SECTION 16: Other information**

Indicates information	on that has changed from previously issued version.
Abbreviations and acronyms	: ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and
ucronyma	Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification

Classification	Justification
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
EUH071	Corrosive to the respiratory tract.

#### Full text of classifications

Acute Tox. 2	ACUTE TOXICITY - Category 2		
Acute Tox. 3	ACUTE TOXICITY - Category 3		
Acute Tox. 4	ACUTE TOXICITY - Category 4		
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1		
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category	1	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category	2	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category	3	
Carc. 2	CARCINOGENICITY - Category 2		
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1		
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2		
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B		
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1		
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B		
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2		
Skin Sens. 1	SKIN SENSITISATION - Category 1		
Skin Sens. 1A	SKIN SENSITISATION - Category 1A		
Skin Sens. 1B	SKIN SENSITISATION - Category 1B		
Date of issue/Date of revis	ion : 28/05/2024 Date of previous issue : 16/11/20	023 Version	:11 19/20

### **SECTION 16: Other information**

STOT RE 1 STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3		
Date of printing	: 28/05/2024		
Date of issue/ Date of revision	: 28/05/2024		
Date of previous issue	e : 16/11/2023		
Version	: 11		

#### Notice to reader

IMPORTANT NOTE: The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.