Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878



SAFETY DATA SHEET

Dac-Hydro-Alu

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

: Poison centre: +32(0)70 245 245 Telephone number Belgium

: +359 2 9154 409 Telephone number Bulgaria Telephone number Croatia : +385 1 2348 342

Telephone number Cyprus : 1401

Telephone number Czech Republic : Toxikologické informační středisko: Na Bojišti 1, 120 00 Praha 2, tel.

+420 224 919 293 nebo +420 224 915 402 (nepřetržitá lékařská služba).

: Contact the "Giftlinien" on tel. No. 82 12 12 12 (open 24 hours a day). Telephone number Denmark

See point 4 on first aid.

: 16662 Telephone number Estonia

Telephone number Finland : 0800 147 111

Telephone number France : ORFILA (INRS): +33 (0)1 45 42 59 59 (24/7)

Emergency Telephone Poison Center Nos. Children Aglaia Kyriakou Telephone number Greece

+30 210 7793777

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version:11 1/29

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

Telephone number Hungary : Health Toxicology Information Service (ETTSZ)

(+ 36-80) 201-199 (in case of emergency 0-24 h, can be called free of

charge).

Telephone number Iceland : +354 5432222
Telephone number Ireland : 809 2166

Available 8am to 10pm 7 days per week

Telephone number Italy : 800183459

Telephone number Latvia : Toxicology and sepsis clinics

Poisoning and Drug Information Center, Hipokrāta Street 2, Riga, Latvia, LV-1038,

Phone number: +371 67042473

Telephone number Lithuania : Poison Information Office 24 hours a day:

Phone: +370 (5) 2362052 (www.apsinuodijau.lt/)

Telephone number Luxembourg : Poison centre: +32(0)70 245 245

Telephone number Malta : 112

Telephone number Netherlands : 088-755 8000 Telephone number Norway : +47 22 59 13 00

Telephone number Portugal : 112

24/7, free call 800 250 250

Telephone number Romania : +40 21 318 36 06 (Monday - Friday between 8:00 -15:00, local hour)

Telephone number Slovakia : NATIONAL TOXICOLOGICAL INFORMATION CENTER - Non-stop

24-hour consultation in case of acute intoxication

+421 2 5477 4166

Telephone number Spain : 915 620 420

Telephone number Sweden : Poison Information Center: 112

Telephone number Switzerland : Swiss Toxicological Information Centre (24 h) : 145

Telephone number United Kingdom: : 809 2166

Northern Ireland Available 8am to 10pm 7 days per week

Supplier

Telephone number Austria : +43 13649237 Telephone number Belgium : +32 28083237 Telephone number Bulgaria : +359 32570104 Telephone number Croatia : +385 17776920 Telephone number Czech Republic : +420 228880039 Telephone number Denmark : +45 69918573 Telephone number Estonia : +372 6681294 Telephone number Finland : +358 942419014 Telephone number France : +33 975181407

Telephone number Germany : +49 69643508409 / 0800-181-7059

Telephone number Greece : +30 2111768478
Telephone number Hungary : +36 18088425
Telephone number Iceland : +354 539 0655
Telephone number Ireland : +353 19014670

Telephone number Italy : +39 0245557031 / 800-789-767

Telephone number Latvia : +371 66165504
Telephone number Lithuania : +370 52140238
Telephone number Luxembourg : 352-20202416
Telephone number Netherlands : +31 858880596
Telephone number Poland : +48 223988029
Telephone number Portugal : +351 308801773

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 2/29

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

 Telephone number Romania
 : +40 37 6300026

 Telephone number Slovakia
 : +421 233057972

 Telephone number Slovenia
 : +38 618888016

 Telephone number Spain
 : +34 931768545

 Telephone number Sweden
 : +46 852503403

 Telephone number Switzerland
 : +41 435082011

Hours of operation : 24 / 7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 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.

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 : Not applicable.

Prevention: P280 - Wear protective gloves.

Response : Not applicable.

Storage : Not applicable.

Disposal : 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.

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 3/29

SECTION 2: Hazards identification

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

Special packaging requirements

Containers to be fitted with child-resistant

: Not applicable.

: Not applicable.

fastenings

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

3.2 Mixtures : Mixture

Europe

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane		<1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
ammonia	REACH #: 01-2119488876-14 EC: 215-647-6 CAS: 1336-21-6 Index: 007-001-01-2	≤0,3	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	STOT SE 3, H335: C ≥ 5% M [Acute] = 1	[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	<0,036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315	ATE [Oral] = 450 mg/kg ATE [Inhalation	[1]

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 4/29

SECTION 3: Composition/information on ingredients

•					
	CAS: 2634-33-5 Index: 613-088-00-6		Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	(dusts and mists)] = 0,21 mg/l Skin Sens. 1, H317: C ≥ 0,036% M [Acute] = 1 M [Chronic] = 1	
pyrithione zinc	REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7	<0,01	Acute Tox. 3, H301 Acute Tox. 2, H330 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 221 mg/kg ATE [Inhalation (dusts and mists)] = 0,14 mg/l M [Acute] = 1000 M [Chronic] = 10	[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	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 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 125 mg/kg ATE [Dermal] = 311 mg/kg ATE [Inhalation (dusts and mists)] = 0,27 mg/l Skin Sens. 1, H317: C ≥ 0,0015% M [Acute] = 100 M [Chronic] = 100	[1]
terbutryn	EC: 212-950-5 CAS: 886-50-0	≤0,011	Acute Tox. 4, H302 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 mg/kg M [Acute] = 100 M [Chronic] = 100	[1]

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.

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

This mixture contains ≥ 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.

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 5/29

SECTION 4: First aid measures

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/symptoms

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.In case of fire, use water spray (fog), foam, dry chemical or CO₂.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from 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 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.

SECTION 5: Firefighting measures

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 European standard 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, protective 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 containment 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.

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.

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.

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version :11 7/29

SECTION 7: Handling and storage

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits / Biological exposure indices

Recommended monitoring procedures

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

DNELs/DMELs

Type	Exposure	Value	Population	Effects
DNEL	Short term	36 mg/m³	Workers	Local
	Inhalation			
DNEL	Long term	14 mg/m³	Workers	Local
DNEL		47,6 mg/m ³	Workers	Systemic
DNEL	· ·	47,6 mg/m ³	Workers	Systemic
- N. I.				
DNEL	Short term Dermal		Workers	Systemic
DAIE	D		VA / I	0
DNEL	Long term Dermai		vvorkers	Systemic
DNE	Long torm	•	Conoral	Local
DINEL	· ·	2,6 mg/m²		Local
DNEI		23 8 mg/m ³		Systemic
DIVLL	•	25,6 mg/m		Systernic
DNEI		68 ma/ka		Systemic
DIVLL	Onort term berman			Oysternio
DNFI	Short term Oral	•		Systemic
J. 122	Short tonni Oran			Cycle:iiic
DNEL	Long term Oral			Systemic
				, , , , , , , , , , , , , , , , , , , ,
DNEL	Short term	•	Workers	Local
	Inhalation	J.		
DNEL	Long term	14 mg/m³	Workers	Local
	Inhalation			
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNEL Short term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Dermal DNEL Short term Dermal DNEL Short term Oral DNEL Short term Oral DNEL Long term Oral DNEL Short term Inhalation DNEL Long term	DNEL Short term Inhalation DNEL Long term Inhalation DNEL Short term 47,6 mg/m³ Inhalation DNEL Long term 47,6 mg/m³ Inhalation DNEL Long term Dermal 6,8 mg/kg bw/day DNEL Long term Dermal 6,8 mg/kg bw/day DNEL Long term 2,8 mg/m³ Inhalation DNEL Long term 23,8 mg/m³ Inhalation DNEL Short term Dermal 68 mg/kg bw/day DNEL Short term Dermal 68 mg/kg bw/day DNEL Short term Oral 6,8 mg/kg bw/day DNEL Short term Oral 6,8 mg/kg bw/day DNEL Short term Oral 6,8 mg/kg bw/day DNEL Short term 14 mg/m³ 14 mg/m³	DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal Short term Dermal Inhalation DNEL Long term Dermal Short term Dermal Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Short term Dermal Short term Dermal Inhalation DNEL Short term Dermal Short term Dermal Short term Oral Short term Oral Short term Oral Short term Inhalation DNEL Long term Oral Short term Inhalation DNEL Short term Oral Short term Inhalation DNEL Short term Inhalation DNEL Short term Inhalation DNEL Long term Inhalation DNEL Short term Inhalation D

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 8/29

SECTION 8: Exposure controls/personal protection

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/m ³	General population	Systemic
	DNEL	Long term Dermal	116,7 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	411,4 mg/ m ³	Workers	Systemic
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	DNEL	Short term Dermal	83 mg/cm ²	Workers	Local
z,o opoxypropane and phonor	DNEL	Long term Dermal	104,15 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	29,39 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	62,5 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	8,7 mg/m³	General population [Consumers]	Systemic
	DNEL	Long term Oral	6,25 mg/ kg bw/day	General population [Consumers]	Systemic
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Inhalation	6,81 mg/m³		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/ kg bw/day	General population	Systemic

PNECs

Product/ingredient name	Compartment Detail	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- poiling	Fresh water	0,1 mg/l	-
	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	-
7 1 21 1	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	-

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 9/29

SECTION 8: Exposure controls/personal protection

Marine water	0,000403 mg/l	-
Sewage Treatment	1,03 mg/l	-
Plant		
Fresh water sediment	0,0499 mg/kg dwt	-
Marine water sediment	0,00499 mg/kg	-
	dwt	
Soil	3 mg/kg dwt	-
Fresh water	0,00009 mg/l	-
Marine water	0,00009 mg/l	-
Sewage Treatment	0,01 mg/l	-
Plant	_	
Marine water sediment	0,0095 mg/kg	-
Fresh water sediment	0,0095 mg/kg	-
	Sewage Treatment Plant Fresh water sediment Marine water sediment Soil Fresh water Marine water Sewage Treatment Plant Marine water sediment	Sewage Treatment Plant Fresh water sediment Marine water sediment Soil Fresh water Marine water Soil Fresh water O,00499 mg/kg dwt 3 mg/kg dwt 0,00099 mg/l 0,00009 mg/l 0,01 mg/l Plant Marine water sediment O,0095 mg/kg

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, 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 eyewash 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

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

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): nitrile rubber (0.5mm)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: (EN 467) Wear overalls or long sleeved shirt.

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 10/29

SECTION 8: Exposure controls/personal protection

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour filter (Type A) particulate filter (EN 140)

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

Physical state : Liquid. Colour : Silver.

Odour : Characteristic. **Odour threshold** : Not available.

Melting point/freezing point

Initial boiling point and

boiling range

: 0°C [Literature]

: >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.

: Closed cup: >100°C (>212°F) [Literature] [Product does not sustain combustion.]

Non-flammable but will burn on prolonged exposure to flame or high

temperature.

Lower and upper explosion

limit

: Not available.

Flash point **Auto-ignition temperature**

: Not relevant due to nature of the product.

Decomposition temperature

: Not available.

pН

: 8 to 9 [Conc. (% w/w): 100%] [OECD 122]

pH: Justification

Viscosity

: Not available.

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): >20,5 mm²/s [calculated.]

Solubility(ies)

Media	Result
cold water	Soluble
hot water	Soluble
methanol	Very slightly soluble
acetone	Very slightly soluble

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure : 2,3 kPa (17,25 mm Hg) [Literature]

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: <1 (butyl acetate = 1) **Evaporation rate**

Relative density : Not available.

1,08 to 1,11 g/cm3 [20°C (68°F)] [DIN 53217] **Density**

Date of issue/Date of revision : 28/05/2024 : 28/05/2024 Version:11 11/29 Date of previous issue

SECTION 9: Physical and chemical properties

Vapour density

: >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 ingredients.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	LD50 Dermal	Rabbit	20 g/kg	-
ammonia	LC50 Inhalation Vapour LC50 Inhalation Vapour LC50 Inhalation Vapour	Human/30 min Rat Rat	5000 mg/m³ 7035 mg/m³ 2000 mg/m³	0,5 hours 30 minutes 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 LD50 Oral	Rat - Male, Female Rat - Male	0,5 mg/l 490 mg/kg	4 hours
pyrithione zinc	LC50 Inhalation Dusts and mists	Rat	140 mg/m³	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	100 mg/kg 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 LD50 Oral	Rabbit Rat	>10200 mg/kg 2045 mg/kg	- -

Conclusion/Summary

Acute toxicity estimates

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

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 12/29

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane	N/A	20000	N/A	N/A	N/A
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0,21
pyrithione zinc	221	N/A	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	-
	Skin - Mild irritant	Rabbit	-	380 milligrams	-

Skin

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

Eyes

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

Respiratory

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

Sensitisation

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

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

Mutagenicity

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 13/29

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

Dac-Hydro-Alu

SECTION 11: Toxicological information

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

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	-	-	Rat	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

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.

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 14/29

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

Dac-Hydro-Alu

SECTION 11: Toxicological information

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:

redness

Ingestion : No specific data.

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects

: Not available.

Potential chronic health effects

Not available.

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

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards. : No known significant effects or critical hazards. Mutagenicity Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ammonia	Acute EC50 110 mg/l	Daphnia spec.	48 hours
	Acute LC50 17 mg/l	Fish	24 hours
	Acute LC50 7 mg/l	Fish	48 hours
	Acute LC50 0,89 mg/l	Fish	96 hours
	Acute LC50 15000 µg/l Fresh water	Fish - Gambusia affinis - Adult	96 hours
	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 - Macrocystis pyrifera - Young	4 days
	Acute EC50 450 μg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 1000 µg/l Marine water	Daphnia spec Daphnia magna	48 hours

Date of issue/Date of revision : 28/05/2024 : 28/05/2024 Version:11 15/29 Date of previous issue

SECTION 12: Ecological information

	<u> </u>			
		Acute IC50 0,31 mg/l Marine water	Crustaceans - Americamysis	48 hours
			<i>bahia</i> - Juvenile (Fledgling,	
			Hatchling, Weanling)	
		Acute LC50 47,5 ng/L Fresh water	Fish - Heteropneustes fossilis	96 hours
		Chronic NOEC 100 mg/l Marine water	Algae - Glenodinium halli	72 hours
		Chronic NOEC 3,5 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
	Formaldehyde, oligomeric	Acute EC50 1,8 mg/l	Algae	72 hours
	reaction products with			
	1-chloro-2,3-epoxypropane			
	and phenol			
	1	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	Acute EC50 0,11 mg/l	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.	48 hours
			Fish	96 hours
		Acute LC50 2,18 mg/l Fresh water		
		Acute LC50 8 to 13 mg/l	Fish - Alburnus alburnus	96 hours
		Acute LC50 1,6 to 2,8 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
		Chronic NOEC 90 mg/l	Aquatic plants - <i>Phaseolus</i>	20 days
			vulgaris	
		Chronic NOEC 1,2 mg/l	Daphnia spec.	21 days
		Chronic NOEC 0,21 mg/l	Fish	28 days
		Chronic NOEL 0,0403 mg/l	Algae	72 hours
	pyrithione zinc	Acute EC50 0,51 µg/l Marine water	Algae - <i>Thalassiosira</i>	96 hours
	pyritinone zinc	Acute 2000 0,01 µg/1 Marine water	pseudonana	30 Hours
		Acuta FCEO OO wall Freeh water		40 hauma
		Acute EC50 80 μg/l Fresh water	Crustaceans - Chydorus	48 hours
			sphaericus	
		Acute EC50 38 μg/l Fresh water	Crustaceans - <i>Ilyocypris</i>	48 hours
			dentifera	
		Acute EC50 8,25 ppb Fresh water	Daphnia spec Daphnia magna	48 hours
		Acute EC50 61 µg/l Fresh water	Daphnia spec Daphnia magna	48 hours
		1 0	- Nauplii	
		Acute LC50 2,68 ppb Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
		Chronic EC10 0,36 µg/l Marine water	Algae - <i>Thalassiosira</i>	96 hours
		Chilonic EC to 0,30 µg/i Marine water		30 Hours
		Observit NOTO 0.7 mmls Marine success	pseudonana	04 -1
		Chronic NOEC 2,7 ppb Marine water	Daphnia spec Daphnia magna	21 days
	2-octyl-2H-isothiazol-3-one	Acute EC50 0,32 to 0,834 mg/l Fresh	Daphnia spec Daphnia magna	48 hours
		water		
		Acute IC50 0,084 mg/l	Algae	72 hours
		Acute LC50 0,0655 to 0,104 mg/l	Fish	96 hours
		Fresh water		
		Acute LC50 0,14 to 0,202 mg/l Fresh	Fish - <i>Pimephales promelas</i>	96 hours
		water	opa.co promorac	
	terbutryn	Acute EC50 0,1 µg/l Fresh water	Algae - Fragilaria capucina ssp.	96 hours
	terbutiyii	Acute ECOO 0,1 µg/11 lesit water		30 Hours
		A	rumpens	70 5
		Acute EC50 2 μg/l Fresh water	Algae - Pseudokirchneriella	72 hours
			subcapitata	
		Acute EC50 2,66 ppm Fresh water	Daphnia spec Daphnia magna	48 hours
		Acute IC50 0,0055 mg/l	Algae	72 hours
		Acute LC50 579,3 mg/l Fresh water	Crustaceans - Pacifastacus	48 hours
		_	leniusculus - Juvenile (Fledgling,	
			Hatchling, Weanling)	
		Acute LC50 1,8 to 1400 µg/l Fresh	Fish - Carassius carassius	96 hours
		water		30 110013
		Acute LC50 0,82 ppm Fresh water	Fish Oncorbynobus mykiss	96 hours
			Fish - Oncorhynchus mykiss	
_		Chronic EC10 0,015 µg/l Fresh water	Algae - Fragilaria capucina ssp.	96 hours
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Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 16/29

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

Dac-Hydro-Alu

SECTION 12: Ecological information

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	-

Conclusion/Summary: This product has not been tested for biodegradation.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	-	-	Not readily
ammonia Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	-	-	Readily Not readily
1,2-benzisothiazol-3(2H)-one 2-octyl-2H-isothiazol-3-one	- Fresh water 2 days, 20°C	-	Readily Readily

12.3 Bioaccumulative potential

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

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 17/29

SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

12.7 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.

European waste catalogue (EWC)

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	IATA
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.

Date of issue/Date of revision : 28/05/2024 : 28/05/2024 Version:11 18/29 Date of previous issue

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

Dac-Hydro-Alu

SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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	≥90	3
Nickel	≤0,3	27

Labelling : Not applicable.

: Listed

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the

product label and/or technical data sheet for further information.

VOC for Ready-for-Use

Mixture

: 2004/42/EC - IIA/i: 140g/I (2010). <= 70g/I VOC.

Industrial emissions (integrated pollution

prevention and control) -

Air

Industrial emissions : Listed

(integrated pollution prevention and control) -

Water

Explosive precursors: Not applicable.

EU - Ozone depleting substances

Not listed.

Prior Informed Consent (PIC) (649/2012/EC)

Not listed

Persistent Organic Pollutants (850/2004/EC)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Austria

VbF class : Not regulated.
Storage code : LGK10

Classification, packaging

and labelling

: Not available.

Limitation of the use of

organic solvents

: Permitted.

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 19/29

SECTION 15: Regulatory information

Waste catalogue

: 55513

References

Federal Law Gazette Nr. 240/1991 - Regulation on Combustible liquids - Warning Classes

Ministry of the Economy and Labor 2003 - GKV 2003 - Decree 429/2011

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Belgium

Book VI carcinogenic agents annex VI.2-1 - VI.2-3

Ingredient name	Status
Nickel	Listed
Aldéhyde acétique	Listed

References

: Royal Decree of 2 December 1993 concerning the protection of workers against the risks related to exposure to carcinogens and mutagens at work

Royal Decree 374/2001, protection of the health and safety of workers from the risks related to chemical agents at work

Royal Decree 396/2006, which establishes minimum health and safety requirements for the protection of workers from risk of exposure to asbestos at the workplace. Royal Decree of 17 May 2007, ammending the Royal Decree of 11 March 2002 relating to the protection of the health and the safety of workers against the risks related to chemical agents in the workplace, Belgium State Gazette 2007-2327 of 7 June 2007.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Bulgaria

References

: Ordinance No. 9 of 4 August 2006 on the protection of workers from the risks

related to exposure to asbestos at work

Ordinance No. 13 of 30 December 2003 on the protection of workers from the risks related to exposure to chemical agents at work

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Croatia

References

Regulation about Maximum Exposure Limits of harmful substances in the

atmosphere of the working environment NN 92/93

Regulation about application of personal safety equipment NN 39/06

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Cyprus

References

Czech Republic

Storage code : IV

Date of issue/Date of revision : 28/05/2024 : 28/05/2024 Version :11 Date of previous issue 20/29

SECTION 15: Regulatory information

References

Decree of the government no. 441/2004 Sb., which amends Decree of the government no. 178/2001 Sb., which implements the health and safety at work conditions, according to the Decree of the government no. 523/2002 Sb.

Decree of the government no. 194/2001 Sb., which implements the technical requirements for aerosol dispensersEC Regulation 1907/2006 (REACH), EC Regulation 1272/2008 (CLP), EC Regulation 648/2004 on detergents, Act No. 350/2011 Coll. on chemical substances and chemical mixtures, Act No. 185/2001 Coll. on waste, Decree No. 381/2001 Coll., Catalog of waste, Decree No. 383//2001 Coll., on details of waste

management, Act No. 258/2000 Coll. on public health, Government Regulation No. 361/2007 Coll., establishing the conditions for health protection at work, Act No. 201/2012 Coll., on air protection and related decrees, Act No. 477/2001 Coll. on packaging, Decree No. 48/1982 Coll., which establishes basic requirements to ensure the safety of work and technical equipment, communication No. 8/2013 Coll. m.s. (ADR), notice No. 23/2013 Coll. (RID), Czech state standards REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Denmark

Executive Order No. 1795/2015

Ingredient name	Annex I Section A	Annex I Section B
titanium dioxide	Listed	-
Nickel	Listed	Carc. 2, H351

Product registration

number

: Not available.

Fire class : IV-2

Denmark – Cancer risks : Listed

MAL-code : 00-1

Protection based on MAL

: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-1

Application: When spraying in existing* spray booths, if the operator is outside the spray zone.

- Arm protectors must be worn.

During all spraying where atomisation occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Full mask with combined filter, coveralls and hood must be worn.

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 21/29

SECTION 15: Regulatory information

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc, must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

MAL-code for ready-for-

use mixture

: Not applicable.

Protection based on MAL for ready-for-use mixture

: Not applicable.

Not applicable.Not applicable.Not applicable.

Low-boiling liquids

. Not applicable.

Restrictions on use

Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

List of undesirable substances

Not listed

: 03.21

Carcinogenic waste

: Waste containers must be labeled: Contains a substance or substances regulated

by Danish working environment legislation on cancer risks.

Waste card number

Waste group

: H

Remark

: Not available.

References : Executive O

: Executive Order no. 301 of 13 May 1993 "Executive order on the determination of

code numbers". (MAL code)

Executive Order no. 302 of 13 May 1993 "Executive Order on work with products

with code numbers". (MAL code)

Executive Order no. 559 of 4 July 2002 "Executive Order on special duties for manufacturers, suppliers and importers etc. of substances and materials according to the law on the working environment".

Executive Order no. 908 of 27 September 2005 "Executive Order on measures for prevention of cancer risk when working with substances and materials".

Executive Order no. 239 of 6 April 2005 "Executive Order on young people's work". Danish Working Environment Authority Guidance No. C.0.1. of August 2007 "Trace

limit value list for substances and materials".

Executive Order no. 571 of 29 November 1984 "Executive Order on use of

propellants and solvents in aerosol containers".

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Estonia References

: Regulation of the Estonian Government of 02.02.2000 No. 32 Occupational health and occupational safety requirements for asbestos.

Regulation of the Estonian Government of 15.12.2005 No. 309 Occupational health and occupational safety requirements for carcinogenic and mutagenic substances. Regulation of the Estonian Government of 18.09.2001 No. 293 Occupational exposure limits of chemicals.

Regulation of the Estonian Government of 20.03.2001 No. 105 Occupational health and occupational safety requirements for handling dangerous chemicals and

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 22/29

SECTION 15: Regulatory information

materials.

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Finland

NACE : Not available.
UC62 : Not available.

References : Regulation of the Ministry of Social Affairs and Health on occupational exposure limit

values 795/2007

Aerosol regulation amendment 805/1994

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

France

Social Security Code, Articles L 461-1 to L 461-7 : Formaldehyde, oligomeric reaction products with RG 51

1-chloro-2,3-epoxypropane and phenol

Classified installations

for environmental

protection

: Not available.

Reinforced medical

surveillance

: Decree n ° 2012-135 of January 30, 2012 relating to the organization of

occupational medicine: not applicable

Remark : Not available.

References : Tables of anticipated professional diseases according to article R461-3 of the labour

code

Labour code: Regulatory and recommended occupational exposure limits: Art.

R231-55 to Art. R231-55-3.

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Germany

Storage class (TRGS 510) : 10 Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Named substances

Name	Reference number

Danger criteria

Category	Reference number

Hazard class for water : 3

Technical instruction on air quality control (TA Luft)

SECTION 15: Regulatory information

Number [Class]	Description	
5.2.1	Total dust	
5.2.2 [II]	Dusty inorganic substances	
5.2.2 [III]	Dusty inorganic substances	
5.2.5	Organic substances	
5.2.5 [I]	Organic substances	
5.2.8	Odorants	
5.2.10	Soil polluting substances	

AOX

: The product contains organically bound halogens and can contribute to the AOX value in waste water.

References

: Decree No. 44/2000 (XII.27.) EüM of the Ministry of Health on detailed arrangements for certain procedures, activities relating to dangerous substances and dangerous preparations plus amendments Decree No. 25/2000 (IX.30.) EüM of the Ministry of Health on chemical safety at work plus amendments Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Greece

References

: Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

Hungary

References

: Regulation on the restrictions on the marketing and use of certain dangerous substances, preparations and articles according to the Chemicals Law Technical Rules for Hazardous Substances (TRGS): Occupational Exposure Limits (TRGS 900)

Technical Rules for Hazardous Substances (TRGS): Directory of carcinogenic, mutagenic and reprotoxic substances (TRGS 905)

First General Administrative Regulation Pertaining to the Federal Immission Control Act (Technical Instructions on Air Quality Control – TA Luft)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Ireland

References

Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)

Safety, Health and Welfare at Work (Carcinogens) Regulations 2001 (S.I. No. 78 of 2001)

Safety, Health and Welfare at Work (General Application) Regulations 2007 Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Italy

D.Lgs. 152/06 : Not determined.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by References

Regulation (EU) No. 2020/878

Latvia

Date of issue/Date of revision : 28/05/2024 : 28/05/2024 Date of previous issue Version:11 24/29

SECTION 15: Regulatory information

References

: Regulation of Cabinet of Ministers No. 325 of 15 May 2007 "Labour protection requirements for contact with chemical substances in the workplace"

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Lithuania

References : Regulation about Maximum Exposure Limits of harmful substances in the

atmosphere of the working environment NN 92/93

Regulation about application of personal safety equipment NN 39/06

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Luxembourg

References : -

<u>Malta</u>

References : -

Netherlands

Ministry of Social Affairs and Employment (SZW) - Carcinogenic substances and processes, mutagenic or reprotoxic substances

Ingredient name	Carcinogen	Mutagen	Reproductive toxicity - Fertility	Reproductive toxicity - Development	Harmful via breastfeeding
chromium(VI) compounds (except for ammonium chromate, ammonium dichromate, calcium chromate, chromium trioxide; chromium(VI) oxide, chromic acid, dichrome tris (chromate), potassium dichromate, sodium dichromate, sodium chromate)	-	-	Fertility 2	Development 1B	-

Water Discharge Policy (ABM)

: Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/

toxicity or persistence). Decontamination effort: Z

Remark : Not available.

References: Water Discharge Policy (ABM)

Netherlands Emission Guidelines for Air (NeR)

List of carcinogenic substances and processes according to article 4.11 of the

Working Conditions Act; Health and Safety Act

List of mutagenic substances and processes according to article 4.11 of the

Working Conditions Act; Health and Safety Act

Non-limited list of reprotoxic substances (with additional registration requirement) according to article 4..2a(2) of the Working Conditions Act; Health and Safety Act Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Poland

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 25/29

SECTION 15: Regulatory information

References

: Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Portugal

References: Occupational Health and Safety. Professional exposure limit values for chemical

agents (NP 1796 2007)

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Romania

References: Order 595-2002 approving technical Regulations regarding spray aerosol containers

Governmental Decision 1218-2006 on establishing the minimum requirements of labour safety and health for ensuring the protection of workers against risks

connected to the presence of chemical agents

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Slovakia

References : Government regulation no. 45/2002 Consolidated to 16 January 2002 on the

protection of health at work from chemical agents

Government Regulation 301/2007 on the protection of workers from risks

associated with exposure to carcinogenic and mutagenic factors

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Slovenia

References : Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

Spain

References: Royal Decree 374/2001, protection of the health and safety of workers from the risks

related to chemical agents at work

ROYAL DECREE 2549/1994. Regulation on aerosol dispensers

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

<u>Sweden</u>

Ordinance on Thermoset : Not app

Plastics

: Not applicable.

Thermoset plastic waste

: Not available.

Waste group
Flammable liquid class

: 080115*

(SRVFS 2005:10)

: Not applicable.

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 26/29

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878

Dac-Hydro-Alu

SECTION 15: Regulatory information

References

Thermosetting plastics AFS 2005:18

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

Regulation (EU) No. 2020/878

REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council

Directive 89/686/EEC

International regulations

Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

List name	Ingredient name	Status
Not listed.		

CN code : 3209 10 00 00

Inventory list

Australia : At least one component is not listed. : At least one component is not listed. Canada China : At least one component is not listed.

Eurasian Economic Union: Russian Federation inventory: Not determined.

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. **Taiwan**

Thailand : Not determined. : Not determined. **Turkey** : Not determined. **United States Viet Nam** : Not determined.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = 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 according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Date of issue/Date of revision : 28/05/2024 : 28/05/2024 Version:11 27/29 Date of previous issue

SECTION 16: Other information

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

Full text of abbreviated H statements

Europe

Full text of abbreviated H statements

11004	T : ::
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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 [CLP/GHS]

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 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 Chronic 1 Aquatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 Chronic 2 Aquatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 Chronic 3 Carc. 2 **CARCINOGENICITY - Category 2** SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Dam. 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 STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED **EXPOSURE - Category 1** STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -Category 3

Date of printing
Date of issue/ Date of revision

: 28/05/2024: 28/05/2024

Date of previous issue : 28/05/2024

Version : 11

Notice to reader

Date of issue/Date of revision : 28/05/2024 Date of previous issue : 28/05/2024 Version : 11 28/29

SECTION 16: Other information

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.