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

SAFETY DATA SHEET



Guard Shield A013

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

1.1 Product identifier

Product name	: Guard Shield A013
Product code	: 49844
Product type	: Powder coating.
Other means of	: Not available.
identification	

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

Use in coatings - Industrial use

1.3 Details of the supplier of the safety data sheet

Jotun A/S P.O.Box 2021 3202 Sandefjord Norway

Tel: + 47 33 45 70 00 Fax: +47 33 45 72 42 E-mail: SDSJotun@jotun.no

1.4 Emergency telephone number

Norwegian National Poison Centre: +47 22 59 13 00

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]

Eve Irrit. 2, H319 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	 F317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H412 - Harmful to aquatic life with long lasting effects. 	
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SECTION 2: Hazards identification

Precautionary statements		
General	:	Not applicable.
Prevention	:	P280 - Wear protective gloves. Wear eye or face protection. P273 - Avoid release to the environment. P261 - Avoid breathing dust.
Response	:	 P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	:	Not applicable.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	midodicarbonimidic diamide, n-(2-methylphenyl)-
Supplemental label elements	:	☑H212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	ner	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	1	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	Specific Conc. Limits, M-factors and ATEs	Туре
ifanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [2] [*]
1,2,4,5-benzenetetracarboxylic acid, compd. with 4,5-dihydro-2-phenyl-1h- imidazole (1:1)	REACH #: 01-2119453802-40 EC: 259-224-4 CAS: 54553-90-1	≤5	Aquatic Chronic 3, H412	-	[1]
imidodicarbonimidic diamide, n-(2-methylphenyl) -	REACH #: 01-2119976311-39 EC: 202-268-6	<3	Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3,	-	[1]

Guard	Shield	A013
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SECTION 3: Compo	sition/informat	tion on	ingredients		
	CAS: 93-69-6		H412		
2,4,8,10-tetraoxa- 3,9-diphosphaspiro[5.5] undecane, 3,9-bis[2,4-bis (1,1-dimethylethyl)phenoxy]-	REACH #: 01-2119977073-34 EC: 247-952-5 CAS: 26741-53-7	≤1	Aquatic Chronic 1, H410	M [Chronic] = 1	[1]
propylidynetrimethanol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd	-	[1]
1h-imidazole, 2-methyl-	EC: 211-765-7 CAS: 693-98-1	<0.3	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Carc. 2, H351 Repr. 1B, H360D See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 mg/kg	[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. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 µm not bound within a matrix. 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

General	:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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 sympto Over-exposure signs/sym	oms and effects, both acute and delayed <u>1ptoms</u>		
Eye contact	: Adverse symptoms may include the pain or irritation watering redness	following:	
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SECTION 4: First	aid measures
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any imm	nediate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefigh	ing measures
5.1 Extinguishing media Suitable extinguishing	: Recommended: alcohol-resistant foam, CO ₂ blanket, water spray or mist.
media	- Do not uso water ist
Unsuitable extinguishing media	: Do not use water jet. Do not use inert gas under high pressure (e.g. CO2).
5.2 Special hazards arising f	om the substance or mixture
Hazards from the substance or mixture	: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous combustion products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
	Fine dust clouds may form explosive mixtures with air.
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters	: Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ective equipment and emergency procedures	
For non-emergency personnel	: Exclude sources of ignition and ventilate the area. Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.	
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	: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.	
6.3 Methods and material for containment and cleaning up	: Contain and collect spillage with an electrically protected vacuum cleaner or by well brushing and place in container for disposal according to local regulations (see section 13). Do not use a dry brush as dust clouds or static can be created.	t-
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.	
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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).

Advice should be taken from a competent occupational health practitioner on the assessment of employees with skin or respiratory complaints before the individual is exposed to the uncured product.

7.1 Precautions for safe handling

Precautions should be taken to prevent the formation of dusts in concentrations above flammable, explosive or occupational exposure limits.

Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8).

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

See Technical Data Sheet / packaging for further information.

7.3 Specific end use(s)

Recommendations Industrial sector specifi : Not available.

Industrial sector specific solutions

: Not available.

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

Dust Limit : 10 mg/m³ (TWA of total inhalable dust) and 4 mg/m³ (TWA of respirable)

Product/ingredient name	Exposure limit values
Manium dioxide	FOR-2011-12-06-1358 (Norway, 12/2022). TWA: 5 mg/m ³ 8 hours.
procedures European assessmen values and atmospher of exposur (Workplace for the mea	should be made to monitoring standards, such as the following: Standard EN 689 (Workplace atmospheres - Guidance for the nt of exposure by inhalation to chemical agents for comparison with limit measurement strategy) European Standard EN 14042 (Workplace es - Guide for the application and use of procedures for the assessment e to chemical and biological agents) European Standard EN 482 e atmospheres - General requirements for the performance of procedures asurement of chemical agents) Reference to national guidance s for methods for the determination of hazardous substances will also be
DNELs/DMELs	

Product/ingredient name	Туре	Exposure	Value	Population	Effects
tanium dioxide	DNEL	Long term	28 µg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	170 µg/m³	Workers	Local
		Inhalation	0.070	O a manual	O. untermin
1,2,4,5-benzenetetracarboxylic acid, compd. with 4,5-dihydro-2-phenyl- 1h-imidazole (1:1)	DNEL	Long term Oral	0.272 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.272 mg/	General	Systemic
	DNEL	Long term	kg bw/day 0.473 mg/	population General	Systemic
	DITLE	Inhalation	m ³	population	Cyclonic
	DNEL	Long term Dermal	0.544 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.92 mg/m ³	Workers	Systemic
midodicarbonimidic diamide, n- ⁄2-methylphenyl)-	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.47 mg/m ³	General population	Local
	DNEL	Long term	1.47 mg/m ³	General	Systemic
		Inhalation		population	-)
	DNEL	Long term Oral	1.67 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Inhalation	5.88 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	5.88 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	8.82 mg/m ³	General population	Local
	DNEL	Short term Inhalation	8.82 mg/m ³	General population	Systemic
	DNEL	Short term Oral	10 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	27.8 mg/ cm ²	General population	Local
	DNEL	Short term Dermal	27.8 mg/ kg bw/day	General	Systemic
	DNEL	Short term Inhalation	35.26 mg/	Workers	Local
	DNEL	Short term	35.26 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Short term Dermal	55.6 mg/ cm²	Workers	Local
	DNEL	Short term Dermal	55.6 mg/ kg bw/day	Workers	Systemic
2,4,8,10-tetraoxa-3,9-diphosphaspiro 5.5]undecane, 3,9-bis[2,4-bis (1,1-dimethylethyl)phenoxy]-	DNEL	Long term Oral	0.39 mg/ kg bw/day	General population	Systemic
r, r-aimearyiearyiphenoxyj-	DNEL	Long term Dermal	0.39 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.68 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.78 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.75 mg/m ³	Workers	Systemic
propylidynetrimethanol	DNEL	Long term Inhalation	3.3 mg/m³	Workers	Systemic
	DNEL	Long term Oral	0.34 mg/	General	Systemic
	DNEL	Long term Dermal	kg bw/day 0.34 mg/	population General	Systemic

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S	SECTION 8: Exposure controls/personal protection								
		DNEL	Long term Inhalation	kg bw/day 0.58 mg/m³	population General population	Systemic			
		DNEL	Long term Dermal	0.94 mg/ kg bw/day	Workers	Systemic			
		DNEL	Long term Inhalation	3.3 mg/m ³	Workers	Systemic			
	1h-imidazole, 2-methyl-	DNEL	Long term Oral	0.02 mg/ kg bw/day	General population	Systemic			
		DNEL	Long term Dermal	0.04 mg/	Workers	Systemic			

Long term

Inhalation

DNEL

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls	: Avoid breathing dust. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain exposure to dusts below the OEL, suitable respiratory protection must be worn.
Individual protection meas	lires

kg bw/day

0.3 mg/m³

Workers

Systemic

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 to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand 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.

<u>Gloves</u>

Wear suitable gloves tested to ISO 374-1:2016.

Recommended, gloves(breakthrough time) > 8 hours: neoprene (> 0.35 mm), PVC (> 0.5 mm), butyl rubber (> 0.4 mm), nitrile rubber (> 0.75 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

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.

SECTION 8: Exposure controls/personal protection

-	
Body protection	: Personnel should wear protective clothing. Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at the neck and wrists through contact with the powder are avoided.
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	: If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist. (FFP2 / N95).
Environmental exposure controls	: Do not allow to enter drains or watercourses.

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

			•	
<u>Appearance</u>				
Physical state	1	Solid. Powder.		
Colour	: Various.			
Odour	1	Odourless.		
Odour threshold	1	Not applicable.		
Melting point (dust)	1	85 - 115 °C		
Initial boiling point and boiling range	:	Not applicable.		
Lower explosion limit (dust)	:	30 g/m ³ (EN 140)34-3)	
Minimum ignition energy (mJ)	1	10 - 30 (EN 138	21)	
Flash point	÷			
Auto-ignition temperature	÷	> 400°C		
Decomposition temperature	:	>230°C		
рН	:	Not applicable.		
Viscosity	1	Not applicable.		
Solubility in water	:	cold water hot water	Not soluble Not soluble	
Partition coefficient: n-octanol/ water	1	Not applicable.		
Vapour pressure	÷	Not applicable.		
Evaporation rate	÷	Not applicable.		
Density	:	1.2 to 1.9 g/cm ³		
Vapour density	÷	Not applicable.		
Explosive properties	: Not available.			
Oxidising properties : Not available.				
Particle characteristics				
Median particle size	1	Not available.		

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

	-	5
10.1 Reactivity	:	Fine dust clouds may form explosive mixtures with air.
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).
		Take precautionary measures against electrostatic discharges.
		To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.
		Prevent dust accumulation.
10.5 Incompatible materials	1	Not applicable.
10.6 Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

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
2,4,5-benzenetetracarboxylic acid, compd. with 4,5-dihydro-2-phenyl-1h- imidazole (1:1)	LD50 Oral	Rat	7400 mg/kg	-
imidodicarbonimidic diamide, n-(2-methylphenyl)-	LD50 Dermal	Rat - Male, Female	>3100 mg/kg	-
	LD50 Oral	Rat - Male	2390 mg/kg	-
propylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-
1h-imidazole, 2-methyl-	LD50 Oral	Mouse	1400 mg/kg	-

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)
2,4,5-benzenetetracarboxylic acid, compd. with 4,5-dihydro-2-phenyl-1h-imidazole (1:1)	7400	N/A	N/A	N/A	N/A
imidodicarbonimidic diamide, n-(2-methylphenyl)-	2390	N/A	N/A	N/A	N/A
propylidynetrimethanol	14000	N/A	N/A	N/A	N/A
1h-imidazole, 2-methyl-	500	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ittanium dioxide imidodicarbonimidic diamide, n-(2-methylphenyl)- 2,4,8,10-tetraoxa- 3,9-diphosphaspiro[5.5] undecane, 3,9-bis[2,4-bis	Skin - Mild irritant Eyes - Severe irritant Skin - Severe irritant	Human Rabbit Rabbit	-	72 hours 24 hours 100 microliters 0.5 Grams	-
(1,1-dimethylethyl)phenoxy]-					

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
midodicarbonimidic diamide, n-(2-methylphenyl)-	skin	Mammal - species unspecified	Sensitising
Muteenicity			

Mutagenicity

Date of issue/Date of revision

SECTION 11: Toxicological information

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

Developmental effects

: No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

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

There are no data available on the mixture itself.

Coating powder residues should not be allowed to enter drains or watercourses or be deposited where they could affect ground or surface waters.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

C50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
C50 6.5 mg/l Fresh water		
3 .	Daphnia - Daphnia pulex - Neonate	48 hours
C50 >1000000 μg/l Marine	Fish - Fundulus heteroclitus	96 hours
C50 9 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Crustaceans	48 hours
	Algae	-
C10 15.4 mg/l	Algae	72 hours
C50 97 mg/l	Algae	72 hours
	Fish	96 hours
NOEC 0.1 mg/l	Daphnia	21 days
	Fish - Pimephales promelas	96 hours
	C50 >1000000 μg/l Marine C50 9 mg/l C50 125 mg/l NOEC 0.64 mg/l C10 15.4 mg/l C50 97 mg/l NOEC 0.1 mg/l NOEC 0.1 mg/l C50 286000 to 307000 μg/l ater	C50 9 mg/lAlgae - Scenedesmus subspicatusC50 125 mg/lCrustaceans AlgaeNOEC 0.64 mg/lAlgae AlgaeC10 15.4 mg/lAlgae FishC50 97 mg/lAlgae FishNOEC 0.1 mg/lFish Daphnia Fish - Pimephales promelas

SECTION 12: Ecological information

12.2 Persistence and degradability

Conclusion/Summary

: Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2,4,5-benzenetetracarboxylic acid, compd. with 4,5-dihydro-2-phenyl-1h- imidazole (1:1)	1	-	low
propylidynetrimethanol 1h-imidazole, 2-methyl-	-0.47 0.24	<1 -	low low

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

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 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. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

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.
Disposal considerations	: Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation	
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances	
Deelvering		

Packaging

SECTION 13: Dispo	al considerations		
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		
Disposal considerations	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions. 		
Type of packaging	European waste catalogue (EWC)		
CEPE Guidelines	15 01 10* packaging containing residues of or contaminated by hazardous substances		
Special precautions	: This material and its container must be disposed of in a safe way. Care should taken when handling emptied containers that have not been cleaned or rinsed Empty containers or liners may retain some product residues. Avoid dispersal spilt material and runoff and contact with soil, waterways, drains and sewers.	out.	

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.

14.6 Special precautions for user: **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 Maritime transport in	: Not available.
bulk according to IMO	
instruments	

SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Toxic to reproduction	1h-imidazole, 2-methyl-	Candidate	D(2020) 4578-DC	25.06.2020
Date of issue/Date of revision	: 26.02.2024 Date of previous issue	: 03.05.2023	Version	:3 12/14

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Other EU regulations	
VOC	: Not available.
VOC for Ready-for-Use Mixture	: Not applicable.
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Ozone depleting substand Not listed.	: <u>es (1005/2009/EU)</u>
Prior Informed Consent (P Not listed.	<u>'IC) (649/2012/EU)</u>
Persistent Organic Polluta Not listed.	<u>ints</u>
Seveso Directive	
This product is not controlle	d under the Seveso Directive.
National regulations	
Industrial use	: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.
<u>Norway</u>	
Product registration number	: 62416
International regulations Chemical Weapon Convent Not listed.	ion List Schedules I, II & III Chemicals
Montreal Protocol Not listed.	
Stockholm Convention on I Not listed.	Persistent Organic Pollutants
Rotterdam Convention on F Not listed.	Prior Informed Consent (PIC)
UNECE Aarhus Protocol on Not listed.	POPs and Heavy Metals
15.2 Chemical safety assessment	: Not applicable.

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]

Classification	Justification
	Calculation method Calculation method Calculation method

Full text of abbreviated H statements

⊮ 302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4 Aquatic Chronic 1 Aquatic Chronic 3 Carc. 2 Eye Dam. 1	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Sens. 1	SKIN SENSITISATION - Category 1

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Notice to reader	

Notice to reader

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