•TRUSTED QUALITY SINCE 1921• SAFETY DATA SHEET

Radiator Paint - Satin

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

1.1 Product identifier	
Product name	: Radiator Paint - Satin
Product description	: Paint
Product type	: Liquid.
UFI	: UC91-S03D-M00V-9YXY

IST-OLEUM

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

	dentified uses
Consumer use Industrial use Professional use	
Uses advised against	Reason
None identified.	-

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	Emerg	aency	telep	hone	number

National advisory body/Poison Centre

Supplier

Telephone number United Kingdom: : +44 870 8200418 / +44 2038073798 Great Britain

Hours of operation

: 24/7

SECTION 2: Hazards identification

2.1	Classification	of the	substance	or mixture
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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.

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

Radiator Paint - Satin

SECTION 2: Hazards identification

2.2 Label elements Hazard pictograms	:
Signal word	: Warning
Hazard statements	 H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	 P103 - Read carefully and follow all instructions. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
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	 1,2-benzisothiazol-3(2H)-one 2-octyl-2H-isothiazol-3-one reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
Supplemental label elements	: EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Supplemental label elements : Detergents - Regulation (EC) No 907/2006	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	<u>ents</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures

United Kingdom: Great Britain

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
1,2-benzisothiazol-3(2H)- one	REACH #: 01-2120761540-60 EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≤0,1	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE [Oral] = 490 mg/kg ATE [Inhalation (vapours)] = 0,5 mg/ I Skin Sens. 1, H317: $C \ge 0,05\%$ M [Acute] = 1	[1]
pyrithione zinc	REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7	≤0,1	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	≤0,1	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	ATE [Oral] = 125 mg/kg ATE [Dermal] = 311 mg/kg ATE [Inhalation (dusts and mists)] = 0,27 mg/l Skin Sens. 1, H317: $C \ge 0,0015\%$ M [Acute] = 100 M [Chronic] = 100	[1]
terbutryn	EC: 212-950-5 CAS: 886-50-0	≤0,1	Acute Tox. 4, H302 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg M [Acute] = 100 M [Chronic] = 100	[1]
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:1)	REACH #: 01-2120764691-48 CAS: 55965-84-9 Index: 613-167-00-5 List #: 611-341-5	≤0,1	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 64 mg/ kg ATE [Dermal] = 92,4 mg/kg ATE [Inhalation (dusts and mists)] = 0,171 mg/l Skin Corr. 1B, H314: $C \ge 0,6\%$ Skin Irrit. 2, H315: 0,06% $\le C < 0,6\%$ Eye Dam. 1, H318: $C \ge 0,6\%$ Eye Irrit. 2, H319: 0,06% $\le C < 0,6\%$ Skin Sens. 1, H317: $C \ge 0,0015\%$ M [Acute] = 100 M [Chronic] = 100	[1]

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SECTION 3: Composition/information on ingredients				
	See Section 16 for the full text of the H statements declared above.			

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

[1] Substance classified with a health or environmental hazard

List numbers have no legal significance.

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

4.2 Most important symptoms and effects, both acute and delayed Over-exposure signs/symptoms

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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

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

Radiator Paint - Satin

SECTION 4: First aid	d m	easures
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: Firefigh	tin	g 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 $_{\rm CO_2}$.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	rom	the substance or mixture
Hazards from the substance or mixture		In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters		Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to 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, pro	tective 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.

SECTION 6: Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
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.

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 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					
Recommended monitoring procedures	atmosphere or of the ventilation protective equi- the following: the assessment limit values an	on or other control mea ipment. Reference sh European Standard E nt of exposure by inhal d measurement strate	may be required to de asures and/or the nec ould be made to moni N 689 (Workplace atn ation to chemical age gy) European Standa	rsonal, workplace etermine the effectiveness essity to use respiratory itoring standards, such as nospheres - Guidance for nts for comparison with Ind EN 14042 (Workplace lures for the assessment	s r e
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SECTION 8: Exposure controls/personal protection

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Inhalation	6,81 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	1,2 mg/m³	General population	Systemic
	DNEL	Long term Dermal	0,966 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0,345 mg/ kg bw/day	General population	Systemic
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	DNEL	Long term Inhalation	0,02 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0,04 mg/m³	Workers	Local
	DNEL	Long term Inhalation	0,02 mg/m³	General population	Local
	DNEL	Short term Inhalation	0,04 mg/m³		Local
	DNEL	Long term Oral	0,09 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Oral	0,11 mg/ kg bw/day	General population	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
titanium dioxide	Fresh water	0,127 mg/l	-
	Marine	>1 mg/l	-
	Sewage Treatment Plant	>100 mg/l	-
	Fresh water sediment	>1000 mg/kg	-
	Marine water sediment	>100 mg/kg	-
	Soil	100 mg/kg	-
	Marine water	0,0184 mg/l	-
	Fresh water	0,184 mg/l	-
2-(2-butoxyethoxy)ethanol	Fresh water	1,1 mg/l	Assessment Factors
	Marine	0,11 mg/l	-
	Fresh water sediment	4,4 mg/kg	Equilibrium Partitioning
	Marine water sediment	0,44 mg/kg	Equilibrium Partitioning
	Sewage Treatment Plant	200 mg/l	Assessment Factors
	Soil	0,32 mg/kg	Equilibrium Partitioning
	Secondary Poisoning	56 mg/kg	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

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SECTION 8: Exposure controls/personal protection

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.

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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: Wear overalls or long sleeved shirt. (EN 467)
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: In case of insufficient ventilation, wear suitable respiratory equipment. organic vapour filter (Type A) (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.

Physical state:Liquid. [Viscous liquid.]Colour:VariousOdour:Not available.Odour threshold:Not available.Melting point/freezing point:0°CInitial boiling point and boiling:100°C (212°F) [Literature]range:Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Nonflammable, but will burn on prolonged exposure to flame or high temperature.Lower and upper explosion:Not relevant due to nature of the product.Imitial boiling point intemperature:Not relevant due to nature of the product.Auto-ignition temperature:Not relevant due to nature of the product.Decomposition temperature:Not available.pH:8 [Conc. (% w/w): 100%] [OECD 122]pH : Justification:Not available.Viscosity:Dynamic: 1600 mPa·s [ICI Rotothinner]Solubility(ies)::MediaResultRot water:Not available.:Viscosity:Solubile:Vapour pressure:2.3 kPa (17.25 mm Hg) [Literature]Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. No unusual hazard fi involved in a fire.Vapour pressure::Vapour pressive:Vapour pressive:Vapour pressive:Not ava	9.1 Information on basic physical	l ar	nd chemical properties
Odour i. Not available. Odour threshold i. Not available. Metting point/freezing point i. 0°C Initial boiling point and boiling i. 00°C (212°F) [Literature] range i. Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Nonflammable, but will burn on prolonged exposure to flame or high temperature. Lower and upper explosion limit i. Not relevant due to nature of the product. Auto-ignition temperature i. Not relevant due to nature of the product. Decomposition temperature i. Not available. pH i. 8 [Conc. (% w/w): 100%] [OECD 122] pH : g. 8 [Conc. (% w/w): 100%] [OECD 122] pH : g. 8 [Conc. (% w/w): 100%] [OECD 122] pH : g. 8 [Conc. (% w/w): 100%] [OECD 122] pH : g. 8 [Conc. (% w/w): 100%] [OECD 122] pH : g. 8 [Conc. (% w/w): 100%] [OECD 122] pH : g. 8 [Conc. (% w/w): 100%] [OECD 122] pH : g. 8 [Conc. (% w/w): 100%] [OECD 122] pH : g. 8 [Conc. (% w/w): 100%] [OECD 122] pH : g. 8 [Conc. (% w/w): 100%] [OECD 122] pH : g. 8 [Conc. (% w/w): 100%] [OECD 122] pV : <td< th=""><th>Physical state</th><th>1</th><th>Liquid. [Viscous liquid.]</th></td<>	Physical state	1	Liquid. [Viscous liquid.]
Odour threshold : Not available. Melting point/freezing point : 0°C Initial boiling point and boiling : 100°C (212°F) [Literature] range : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Nonflammable, but will burn on prolonged exposure to flame or high temperature. Lower and upper explosion : Not available. limit : Not relevant due to nature of the product. Decomposition temperature : Not relevant due to nature of the product. Decomposition temperature : Not available. pH : 8 [Conc. (% w/w): 100%] [OECD 122] pH Justification : Not available. Viscosity : Dynamic: 1600 mPars [ICI Rotothinner] Solubility(its) : Indela Result Cold water : Soluble Not available. Very slightly soluble very slightly soluble : Very slightly soluble actore : Very slightly soluble Solubility in water : Not available. Partition coefficient: n-octanol/ : Not available. Partition coefficient: n-octanol/ : Not available. Density :	Colour	:	Various
Metting point/freezing point : 0°C Initial boiling point and boiling : 100°C (212°F) [Literature] range : Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Nonflammable, but will burn on prolonged exposure to flame or high temperature. Lower and upper explosion limit : Not relevant due to nature of the product. Auto-ignition temperature : Not relevant due to nature of the product. PH : 8 [Conc. (% w/w): 100%] [OECD 122] pH : Not available. Viscosity : Dynamic: 1600 mPa·s [ICI Rotothinner] Solubility(ies) : Imetianol : Very slightly soluble Very slightly soluble : Not available. Viscosity : : Soluble soluble : Soluble : Media Result : Soluble cold water : Soluble : Internanol : : Not available. Partition coefficient: n-octanol/ : : Not available. Partition coefficient:	Odour	:	Not available.
Initial boling point and boiling : 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. Nonflammable, but will burn on prolonged exposure to flame or high temperature. Lower and upper explosion limit : Not relevant due to nature of the product. Auto-ignition temperature : Not relevant due to nature of the product. Decomposition temperature : Not available. pH : 8 [Conc. (% w/w): 100%] [OECD 122] pH : Justification : Not available. Viscosity : Dynamic: 1600 mPa·s [ICI Rotothinner] Solubility(ies) : Media Result lcold water Soluble hot water : Not available. Very slightly soluble : vactorne : Very slightly soluble acetone : Very slightly soluble Vapour pressure : 2.3 kPa (17.25 mm Hg) [Literature] Evaporation rate : <1 (butyl acetate = 1) Relative density : Not available. Density : 1.2 g/cm³ [20°C (68°F)] [DIN 53217] Vapour density : 1.2 g/cm³ [20°C (68°F)] [DIN 53217] <td< th=""><th>Odour threshold</th><th>1</th><th>Not available.</th></td<>	Odour threshold	1	Not available.
range 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. Nonflammable, but will burn on prolonged exposure to flame or high temperature. Lower and upper explosion limit : Not available. Flash point : Not relevant due to nature of the product. Auto-ignition temperature : Not relevant due to nature of the product. Decomposition temperature : Not relevant due to nature of the product. PH : 8 [Conc. (% w/w): 100%] [OECD 122] pH : : 8 [Conc. (% w/w): 100%] [OECD 122] pH : : 8 [Conc. (% w/w): 100%] [OECD 122] pH : : 8 [Conc. (% w/w): 100%] [OECD 122] pH : : 8 [Conc. (% w/w): 100%] [OECD 122] pH : : 8 [Conc. (% w/w): 100%] [OECD 122] pH : : 8 [Conc. (% w/w): 100%] [OECD 122] pH : : 9 [Conc. (% w/w): 100%] [OECD 122] pH : : 0x1 available. Viscosity : : Dynamic: 1600 mPa·s [ICI Rotothinner] Solubile : viscosity : : Dynamic: 1600 mPa·s [ICI Rotothinner] Solubile : indta water : solubile : <	Melting point/freezing point	:	O°C
Image: Sparks and static discharge, heat and shocks and mechanical impacts. Nonflammable, but will burn on prolonged exposure to flame or high temperature. Lower and upper explosion limit : Not available. Flash point : Not relevant due to nature of the product. Auto-Ignition temperature : Not relevant due to nature of the product. Decomposition temperature : Not relevant due to nature of the product. PH : 8 [Conc. (% w/w): 100%] [OECD 122] pH : Justification : Not available. Viscosity : Dynamic: 1600 mPars [ICI Rotothinner] 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 available. Vapour pressure : 2,3 kPa (17.25 mm Hg) [Literature] Evaporation rate : <1 (butyl acetate = 1) Relative density : Not available. Density : >1,2 g/cm³ [20°C (68°F)] [DIN 53217] Vapour density : >1 [Air = 1] Explosive properties : Non-explos	•••	1	100°C (212°F) [Literature]
limit Flash point : Not relevant due to nature of the product. Auto-Ignition temperature : Not relevant due to nature of the product. Decomposition temperature : Not available. pH : 8 [Conc. (% w/w): 100%] [OECD 122] pH : Justification : Not available. Viscosity : Dynamic: 1600 mPa·s [ICI Rotothinner] Solubility(ies) : Media Result Cold water Soluble hot water Soluble nethanol Very slightly soluble acetone Very slightly soluble Vapour pressure : 2,3 kPa (17,25 mm Hg) [Literature] Evaporation rate : <1 (butyl acetate = 1) Relative density : Not available. Density : 1,2 g/cm³ [20°C (68°F)] [DIN 53217] Vapour density : 1 [Air = 1] Explosive properties : Non-explosive in the presence of the following materials or conditions: open flarmes, sparks and static discharge and heat. No unusual hazard if involved in a fire. Oxidising properties : Not available. Particle characteristics : Not available.	Flammability (solid, gas)	:	flames, sparks and static discharge, heat and shocks and mechanical impacts.
Auto-ignition temperature : Not relevant due to nature of the product. Decomposition temperature : Not available. pH : 8 [Conc. (% w/w): 100%] [OECD 122] pH : Justification : Not available. Viscosity : Dynamic: 1600 mPa·s [ICI Rotothinner] Solubility(ies) : Media Result Cold water Soluble hot water Soluble Not available. Very slightly soluble acetone Very slightly soluble Solubility in water : Not available. Partition coefficient: n-octanol/ : Not available. Partition coefficient: n-octanol/ : Not available. Vapour pressure : 2,3 kPa (17,25 mm Hg) [Literature] Evaporation rate : <1 (butyl acetate = 1) Relative density : Not available. Density : 1,2 g/cm³ [20°C (68°F)] [DIN 53217] Vapour density : >1 [Air = 1] Explosive properties : Not available. 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 : Not available.		1	Not available.
Decomposition temperature : Not available. pH : 8 [Conc. (% w/w): 100%] [OECD 122] pH : Justification : Not available. Viscosity : Dynamic: 1600 mPa·s [ICI Rotothinner] Solubility(ies) : Media Result cold water Soluble hot water Soluble hot water Soluble hot water Soluble very slightly soluble Very slightly soluble acetone Very slightly soluble Solubility in water : Not available. Partition coefficient: n-octanol/ : Not applicable. water : Not applicable. water : Not available. Partition coefficient: n-octanol/ : Not applicable. water : 1, butyl acetate = 1) Relative density : Not available. Density : 1, 2 g/cm³ [20°C (68°F)] [DIN 53217] Vapour density : >1 [Air = 1] Explosive properties : Not available. Density : >1 [Air = 1] Explosive properties : Not available. Particle characteristics : Not available.			
pH : 8 [Conc. (% w/w): 100%] [OECD 122] pH : Justification : Not available. Viscosity : Dynamic: 1600 mPa·s [ICI Rotothinner] Solubility(ies) : Media Result cold water Soluble hot water Soluble methanol Very slightly soluble acetone Very slightly soluble Vacence : Not available. Partition coefficient: n-octanol/ : Not applicable. water : 2,3 kPa (17,25 mm Hg) [Literature] Evaporation rate : <1 (butyl acetate = 1) Relative density : Not available. Density : 1,2 g/cm³ [20°C (68°F)] [DIN 53217] 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 : Not available. Particle characteristics : Not available.	• ·		·
pH : Justification : Not available. Viscosity : Dynamic: 1600 mPars [ICI Rotothinner] 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 : 2,3 kPa (17,25 mm Hg) [Literature] Evaporation rate : 4.1 (butyl acetate = 1) Relative density : Not available. Density : 1,2 g/cm³ [20°C (68°F)] [DIN 53217] Vapour density : >1 [Air = 1] Explosive properties : Not available. Oxidising properties : Not available. Particle characteristics :>		÷	
Viscosity : Dynamic: 1600 mPa-s [ICI Rotothinner] 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] Evaporation rate : 2,3 kPa (17,25 mm Hg) [Literature] Evaporation rate : 2,3 kPa (17,25 mm Hg) [Literature] Evaporation rate : 2,3 kPa (17,25 mm Hg) [Literature] Evaporation rate : 1,2 g/cm³ [20°C (68°F)] [DIN 53217] Vapour density : 2 > 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 : Vational hazard if involved in a fire. </th <th></th> <th>÷</th> <th></th>		÷	
Solubility(ies) : Media Result cold water Soluble hot water Soluble water Soluble wethanol Very slightly soluble acetone Very slightly soluble Solubility in water : Not available. Partition coefficient: n-octanol/ : Not applicable. water : Not applicable. Vapour pressure : 2,3 kPa (17,25 mm Hg) [Literature] Evaporation rate : <1 (butyl acetate = 1) Relative density : Not available. Density : 1,2 g/cm³ [20°C (68°F)] [DIN 53217] 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 : Not available. Particle characteristics : Not available.		÷	
Media Result cold water Soluble hot water Soluble water Very slightly soluble very slightly soluble 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] Evaporation rate : <1 (butyl acetate = 1) Relative density : Not available. Density : 1,2 g/cm³ [20°C (68°F)] [DIN 53217] 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 : Not available. Particle characteristics : Not available.	•	÷	Dynamic. Toolo mPars [ICI Rototininer]
cold water hot water methanol acetoneSoluble Soluble Very slightly soluble Very slightly solubleSolubility in water 			Peoult
hot water methanol acetoneSoluble Very slightly soluble Very slightly solubleSolubility in water: Not available.Partition coefficient: n-octanol/ water: Not applicable.Vapour pressure: 2,3 kPa (17,25 mm Hg) [Literature]Evaporation rate: < 1 (butyl acetate = 1)Relative density: Not available.Density: 1,2 g/cm³ [20°C (68°F)] [DIN 53217]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: Not available.Particle characteristics:			
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Solubility in water : Not available. Partition coefficient: n-octanol/ water : Not applicable. Vapour pressure : 2,3 kPa (17,25 mm Hg) [Literature] Evaporation rate : <1 (butyl acetate = 1) Relative density : Not available. Density : 1,2 g/cm³ [20°C (68°F)] [DIN 53217] 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 : Not available. Particle characteristics : Not available.			Soluble
Partition coefficient: n-octanol/ water: Not applicable.Vapour pressure Evaporation rate Relative density: 2,3 kPa (17,25 mm Hg) [Literature]Evaporation rate 	hot water methanol		Very slightly soluble
waterVapour pressure: 2,3 kPa (17,25 mm Hg) [Literature]Evaporation rate: <1 (butyl acetate = 1)Relative density: Not available.Density: 1,2 g/cm³ [20°C (68°F)] [DIN 53217]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: Not available.Particle characteristics: Not available.	hot water methanol		Very slightly soluble
Evaporation rate: <1 (butyl acetate = 1)Relative density: Not available.Density: 1,2 g/cm³ [20°C (68°F)] [DIN 53217]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: Not available.Particle characteristics: Not available.	hot water methanol acetone	:	Very slightly soluble Very slightly soluble
Relative density: Not available.Density: 1,2 g/cm³ [20°C (68°F)] [DIN 53217]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: Not available.Particle characteristics: Not available.	hot water methanol acetone Solubility in water Partition coefficient: n-octanol/		Very slightly soluble Very slightly soluble Not available.
Density : 1,2 g/cm³ [20°C (68°F)] [DIN 53217] 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 : Not available. Particle characteristics : Not available.	hot water methanol acetone Solubility in water Partition coefficient: n-octanol/ water	:	Very slightly soluble Very slightly soluble Not available. Not applicable.
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 : Not available. Particle characteristics : Not available.	hot water methanol acetone Solubility in water Partition coefficient: n-octanol/ water Vapour pressure	:	Very slightly soluble Very slightly soluble Not available. Not applicable. 2,3 kPa (17,25 mm Hg) [Literature] <1 (butyl acetate = 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: Not available.Particle characteristics	hot water methanol acetone Solubility in water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate	:	Very slightly soluble Very slightly soluble Not available. Not applicable. 2,3 kPa (17,25 mm Hg) [Literature] <1 (butyl acetate = 1)
flames, sparks and static discharge and heat. No unusual hazard if involved in a fire. Oxidising properties : Not available. Particle characteristics	hot water methanol acetone Solubility in water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density	: : : :	Very slightly soluble Very slightly soluble Not available. Not applicable. 2,3 kPa (17,25 mm Hg) [Literature] <1 (butyl acetate = 1) Not available.
Particle characteristics	hot water methanol acetone Solubility in water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Density		Very slightly soluble Very slightly soluble Not available. Not applicable. 2,3 kPa (17,25 mm Hg) [Literature] <1 (butyl acetate = 1) Not available. 1,2 g/cm³ [20°C (68°F)] [DIN 53217]
	hot water methanol acetone Solubility in water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Density Vapour density		Very slightly soluble Very slightly soluble Not available. Not applicable. 2,3 kPa (17,25 mm Hg) [Literature] <1 (butyl acetate = 1) Not available. 1,2 g/cm ³ [20°C (68°F)] [DIN 53217] >1 [Air = 1] Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
	hot water methanol acetone Solubility in water Partition coefficient: n-octanol/ water Vapour pressure Evaporation rate Relative density Density Vapour density Explosive properties		Very slightly soluble Very slightly soluble Not available. Not applicable. 2,3 kPa (17,25 mm Hg) [Literature] <1 (butyl acetate = 1) Not available. 1,2 g/cm ³ [20°C (68°F)] [DIN 53217] >1 [Air = 1] 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.

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
1,2-benzisothiazol-3(2H)- one	LC50 Inhalation Dusts and mists	Rat	0,11 mg/l	4 hours
	LC50 Inhalation Dusts and mists	Rat - Male, Female	0,5 mg/l	4 hours
	LD50 Oral	Rat - Male	490 mg/kg	-
pyrithione zinc	LC50 Inhalation Dusts and mists	Rat	140 mg/m ³	4 hours
	LD50 Dermal	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	177 mg/kg	-
2-octyl-2H-isothiazol-3-one	LC50 Inhalation Dusts and mists	Rat	0,27 mg/l	4 hours
	LD50 Oral	Rat	248 mg/kg	-
terbutryn	LC50 Inhalation Dusts and mists	Rat	>2200 mg/l	4 hours
	LD50 Dermal	Rabbit	>10200 mg/kg	-
	LD50 Oral	Rat	2045 mg/kg	-
reaction mass of: 5-chloro-	LC50 Inhalation Dusts and mists	Rat - Male,	0,171 mg/l	4 hours
2-methyl-4-isothiazolin-		Female		
3-one [EC no. 247-500-7]				
and 2-methyl-2H-isothiazol-				
3-one [EC no. 220-239-6] (3:				
1)				
	LD50 Dermal	Rabbit	92,4 mg/kg	-
	LD50 Oral	Rat	64 mg/kg	-

Conclusion/Summary

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

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)	
1,2-benzisothiazol-3(2H)-one pyrithione zinc 2-octyl-2H-isothiazol-3-one terbutryn reaction mass of: 5-chloro-2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	490 221 125 500 64	N/A N/A 311 N/A 92,4	N/A N/A N/A N/A N/A	0,5 N/A N/A N/A N/A	N/A 0,14 0,27 N/A 0,171	

Irritation/Corrosion

Date of issue/Date of revision

SECTION 11: Toxicological information

	0				
Product/ingredient name	Result	Species	Score	Exposure	Observation
2-octyl-2H-isothiazol-3-one	Eyes - Severe irritant	Rabbit	-	-	-
terbutryn	Eyes - Moderate irritant	Rabbit	-	76 milligrams	-
	Skin - Mild irritant	Rabbit	-	380	-
				milligrams	
reaction mass of: 5-chloro-	Eyes - Severe irritant	Rabbit	-	-	-
2-methyl-4-isothiazolin-					
3-one [EC no. 247-500-7]					
and 2-methyl-2H-isothiazol-					
3-one [EC no. 220-239-6] (3:					
1)					
	Skin - Severe irritant	Human	-	0.01 Percent	-
	Skin - Severe irritant	Rabbit	-	-	1 to 4 hours

Conclusion/Summary

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

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

Skin

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

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
2-octyl-2H-isothiazol-3-one	skin	Guinea pig	Sensitising
	skin	Rat	Sensitising
	skin	Guinea pig	Sensitising

Skin : May cause an allergic skin reaction. Respiratory : Based on available data, the classification criteria are not met. Mutagenicity Conclusion/Summary Carcinogenicity : Based on available data, the classification criteria are not met.

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Conclusion/Summary	:	Based on available data, the classification criteria are not met.
Reproductive toxicity		
Conclusion/Summary	:	Based on available data, the classification criteria are not met.
Teratogenicity		
Conclusion/Summary	1	Based on available data, the classification criteria are not met.
Specific target organ toxicit	<u>у (</u>	<u>single exposure)</u>
Not available.		

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Not available.

SECTION 11: Toxicological information

	ogioai intorniación
Information on likely routes of exposure	: Routes of entry anticipated: Oral, Inhalation. Routes of entry not anticipated: Dermal.
Potential acute health effects	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phys	ical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation

	irritation
	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 effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>ects</u>
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.
Mutagenicity	: No known significant effects or critical hazards.
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

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposur
I,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
	Acute LC50 2,18 mg/l Fresh water	Fish	96 hours
	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 - Phaseolus	20 days
		vulgaris	
	Chronic NOEC 1,2 mg/l	Daphnia spec. Fish	21 days 28 days
	Chronic NOEC 0,21 mg/l		72 hours
	Chronic NOEL 0,0403 mg/l	Algae	
pyrithione zinc	Acute EC50 0,51 μg/l Marine water	Algae - Thalassiosira pseudonana	96 hours
	Acute EC50 80 μg/l Fresh water	Crustaceans - Chydorus sphaericus	48 hours
	Acute EC50 38 μg/l Fresh water	Ċrustaceans - Ilyocypris dentifera	48 hours
	Acute EC50 8,25 ppb Fresh water	Daphnia spec Daphnia magna	48 hours
	Acute EC50 61 µg/l Fresh water	Daphnia spec Daphnia magna - Nauplii	48 hours
	Acute LC50 2,68 ppb Fresh water	Fish - Pimephales promelas	96 hours
	Chronic EC10 0,36 µg/l Marine water	Algae - Thalassiosira	96 hours
		pseudonana	oo nouro
	Chronic NOEC 2,7 ppb Marine water	Daphnia spec Daphnia magna	21 dave
estud Old isothistal 2 and			
-octyl-2H-isothiazol-3-one	Acute EC50 0,32 to 0,834 mg/l Fresh	Daphnia spec Daphnia magna	46 nours
	water	A	70
	Acute IC50 0,084 mg/l	Algae	72 hours
	Acute LC50 0,0655 to 0,104 mg/l Fresh	Fish	96 hours
	water		
	Acute LC50 0,14 to 0,202 mg/l Fresh	Fish - Pimephales promelas	96 hours
	water		
erbutryn	Acute EC50 0,1 µg/l Fresh water	Algae - Fragilaria capucina ssp.	96 hours
		rumpens	
	Acute EC50 2 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	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 Ieniusculus - Juvenile (Fledgling,	48 hours
		Hatchling, Weanling)	
	Acute LC50 1,8 to 1400 µg/l Fresh water	Fish - Carassius carassius	96 hours
	Acute LC50 0,82 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic EC10 0,015 µg/l Fresh water	Algae - Fragilaria capucina ssp. rumpens	96 hours
eaction mass of: 5-chloro-	Acute EC50 0,037 mg/l Fresh water	Algae	48 hours
-methyl-4-isothiazolin- -one [EC no. 247-500-7]			
nd 2-methyl-2H-isothiazol-			
-one [EC no. 220-239-6] (3:			
)			
	Acute EC50 0,16 mg/l Fresh water	Daphnia spec.	48 hours
	Acute LC50 0,19 mg/l Fresh water	Fish	96 hours
	Acute NOEC 0,004 mg/l Marine water	Algae	48 hours
	Chronic NOEC 0,18 mg/l	Daphnia spec.	21 days
	Chronic NOEC 0,02 mg/l Fresh water	Fish	38 days
			oo aayo
onclusion/Summary	: Harmful to aquatic life with long lasting	g effects.	

SECTION 12: Ecological information

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
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	-
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-	OECD 301D	>60 % - Readily - 28 days	-	-
3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3:				
')	-	<50 % - 10 days	-	-

Conclusion/Summary : This product has not been tested for biodegradation. **Biodegradability Product/ingredient name Aquatic half-life Photolysis** 1,2-benzisothiazol-3(2H)-one Readily 2-octyl-2H-isothiazol-3-one Readily Fresh water 2 days, 20°C reaction mass of: 5-chloro-Readily 2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3: 1)

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1,2-benzisothiazol-3(2H)-one pyrithione zinc 2-octyl-2H-isothiazol-3-one terbutryn reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	0,64 0,9 2,9 3,74 -0.83 to 0.75	- 11 - -	low low low low low

12.4 Mobility in soil

Soil/water partition coefficient (K _{oc})	: 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.

13.1 Waste treatment methods

Waste code
European waste catalog
Hazardous waste
<u>Product</u> Methods of disposal

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

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 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

5.1 Safety, health and envir Other EU regulations	ronmental regulations/legislation specific for the substance or mixture
VOC	:
VOC for Ready-for-Use Mixture	 IIA/d. Interior/exterior trim and cladding paints for wood and metal. EU limit value for this product : 130g/l (2010.) This product contains a maximum of 1 g/l VOC.
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) -	: Not listed

Water

United Kingdom: Great Britain

UK (GB) /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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants Not listed.

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Aerosol dispensers

Seveso Directive

This product is not controlled under the Seveso Directive.

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Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and

use of certain dangerous substances, mixtures and articles

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	·	·

Date of issue/Date of revision

SECTION 15: Regulatory information

		-
Inventory list		
Australia	:	At least one component is not listed.
Canada	:	At least one component is not listed.
China	:	At least one component is not listed.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	1	Japan inventory (CSCL): At least one component is not listed. Japan inventory (ISHL): Not determined.
New Zealand	1	At least one component is not listed.
Philippines	1	At least one component is not listed.
Republic of Korea	:	At least one component is not listed.
Taiwan	:	Not determined.
Thailand	:	At least one component is not listed.
Turkey	:	Not determined.
United States	:	At least one component is not listed.
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

 \checkmark Indicates information that has changed from previously issued version.

1 [[[[[[[[[[[[[[[[[[[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
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

Full text of abbreviated H statements

United Kingdom: Great Brita	in		
Full text of abbreviated H statements	: H301	Toxic if swallowed.	
	H302	Harmful if swallowed.	
	H310	Fatal in contact with skin.	
	H311	Toxic in contact with skin.	
	H314	Causes severe skin burns and eye damage.	
	H315	Causes skin irritation.	
	H317	May cause an allergic skin reaction.	
	H318	Causes serious eye damage.	
	H330	Fatal if inhaled.	
	H360D	May damage the unborn child.	
	H372	Causes damage to organs through prolonged or repeated exposure.	
	H400	Very toxic to aquatic life.	
	H410	0 Very toxic to aquatic life with long lasting effects.	
	H411	Toxic to aquatic life with long lasting effects.	
Date of issue/Date of revision	: 01/12/2022	Date of previous issue : 01/12/2022 Version : 1 17/	

SECTION 16: Other information

SECTION 16: Other information			
		H412 Har	mful to aquatic life with long lasting effects.
<u>Full text of classifications</u> [CLP/GHS]	:	Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Repr. 1B Skin Corr. 1 Skin Corr. 1 Skin Corr. 1 Skin Sens. 1 Skin Sens. 1 Skin Sens. 18 STOT RE 1	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 REPRODUCTIVE TOXICITY - Category 1B SKIN CORROSION/IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 1 SKIN SENSITISATION - CATEGORY 1 SKIN SENSI
Date of printing		01/12/2022	EXPOSURE - Category 1
Date of issue/ Date of revision	:	01/12/2022	
Date of previous issue	:	01/12/2022	
Version	:	1	
Notice to reader			

Notice to reader

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

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

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