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



SAFETY DATA SHEET

Zeroflame Aquasteel WB+

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

1.1 Product identifier

Product description

Product type

UFI

- Product name :
 - : Zeroflame Aquasteel WB+

: Coating.

: Liquid.

: FX81-70NE-300E-091N

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

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

1.3 Details of the supplier of the safety data sheet

Zeroflame 10 Flush Park Lisburn Co Antrim BT28 2DX United Kingdom Telephone no.: 0845 383 8333 sales@zeroflame.co.uk e-mail address of person : rpmeurohas@rustoleum.eu responsible for this SDS 1.4 Emergency telephone number National advisory body/Poison Centre Supplier

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture				
Product definition	: Mixture			

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

Carc. 2, H351

Repr. 2, H361f STOT RE 2, H373 (urinary tract)

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

Date of issue/Date of revision

SECTION 2: Hazards identification

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H351 - Suspected of causing cancer. H361f - Suspected of damaging fertility. H373 - May cause damage to organs through prolonged or repeated exposure. (urinary tract)
Precautionary statements		
General	:	Not applicable.
Prevention	1	 P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P260 - Do not breathe vapour or spray.
Response	:	P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	:	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	1	melamine
Supplemental label elements	:	EUH208 - Contains 1,2-benzisothiazol-3(2H)-one and 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). May produce an allergic reaction. 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	nen	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.

2.3 Other hazards

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

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

Other hazards which do : May cause endocrine disruption. not result in classification

SECTION 3: Composition/information on ingredients

Mixture

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3.2 Mixtures

United Kingdom: Great Britain

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре	
melamine	REACH #: 01-2119485947-16 EC: 203-615-4 CAS: 108-78-1	≥10 - ≤25	Carc. 2, H351 Repr. 2, H361f STOT RE 2, H373 (urinary tract)	-	[1] [2]	
tris(2-chloro-1-methylethyl) phosphate	REACH #: 01-2119486772-26	≤5	Acute Tox. 4, H302	ATE [Oral] = 1500 mg/kg	[1]	
1,2-benzisothiazol-3(2H)- one	REACH #: 01-2120761540-60 EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	≤0,1	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/l Skin Sens. 1, H317: $C \ge 0,05\%$ M [Acute] = 1	[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	≤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]	
			See Section 16 for the full text of the H statements declared above.			

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

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance of equivalent concern

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 n	neasures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
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 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. 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.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. 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. 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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

4.3 Indication of any immediate 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

SECTION 5: Firefighting measures

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5.2 Special hazards arising f	ror	n 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.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds 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	te	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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: 5 to 25°C (41 to 77°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. Store locked up. 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 / Biological exposure indices

Recommended monitoring	Reference should be made to monitoring standards, such as the following:			
procedures	ropean Standard EN 689 (Workplace atmosph			
	sessment of exposure by inhalation to chemica	č		
	lues and measurement strategy) European Sta			
	nospheres - Guide for the application and use o	of procedures for the assessment		
	exposure to chemical and biological agents) E	uropean Standard EN 482		
	orkplace atmospheres - General requirements	for the performance of procedures		
	the measurement of chemical agents) Refere	nce to national guidance		
	cuments for methods for the determination of h	azardous substances will also be		
	quired.			

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
melamine	DNEL	Long term Inhalation	8,3 mg/m ³	Workers	Systemic
1,2-benzisothiazol-3(2H)-one	DNEL	Long term Inhalation	6,81 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	1,2 mg/m³	General population	Systemic
	DNEL	Long term Dermal	0,966 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0,345 mg/ 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/m³		Local
· /	DNEL	Short term Inhalation	0,04 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	0,02 mg/m³	General population	Local
	DNEL	Short term Inhalation	0,04 mg/m ³	General population	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
melamine	Fresh water	0,64 mg/l	-
	Marine water	0,064 mg/l	-
	Soil	1,7 mg/kg dwt	-
	Sediment	1,34 mg/kg dwt	-
1,2-benzisothiazol-3(2H)-one	Fresh water	0,00403 mg/l	-
	Marine water	0,000403 mg/l	-
	Sewage Treatment	1,03 mg/l	-
	Plant		
	Fresh water sediment	0,0499 mg/kg dwt	-
	Marine water sediment	0,00499 mg/kg	-
		dwt	
	Soil	3 mg/kg dwt	-
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)	Fresh water	3,39 ng/l	-
	Sewage Treatment Plant	0,23 mg/l	-
	Marine water	3,39 ng/l	-
	Soil	0,01 mg/kg dwt	-
	Fresh water sediment	0,027 mg/kg dwt	-
	Marine water sediment	0,027 mg/kg dwt	-
	Fresh water	0,00339 mg/l	-
	Marine water	0,00339 mg/l	-
	Sewage Treatment Plant	0,23 mg/l	-
	Fresh water sediment	0,027 mg/kg	-
	Marine water sediment	0,027 mg/kg	-
	Soil	0,01 mg/kg	-

8.2 Exposure controls

Date of issue/Date of revision

SECTION 8: Exposure controls/personal protection

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Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection measur	<u>es</u>
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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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

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

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

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

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

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

Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): nitrile rubber (0.5mm)
	The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: 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: organic vapour (Type A) and particulate filter (as filter combination A-P2) (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

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

9.1 Information on basic physic	al and chemical properties
Physical state	: Liquid.
Colour	: White.
Odour	: Characteristic.
Odour threshold	: Not available.
Melting point/freezing point	: 0°C [Literature]
Initial boiling point and boiling range	: >100°C (>212°F) [Literature]
Flammability (solid, gas)	 Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. 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 available.
рН	: 8 to 9,5 [Conc. (% w/w): 100%] [OECD 122]
pH : Justification	: Not available.
Viscosity	: Dynamic: 7500 mPa⋅s Kinematic: 5435 mm²/s [calculated.]

9.1 Information on basic physical and chemical properties

Solubility(ies)

Media		Result
cold water hot water methanol acetone		Soluble Soluble Very slightly soluble Very slightly soluble
Solubility in water	:	Not available.
Miscible with water	:	Yes.
Partition coefficient: n-octanol/ water	:	Not applicable.
Vapour pressure	:	2,3 kPa (17,25 mm Hg) [Literature]
Evaporation rate	1	<1 (butyl acetate = 1)
Relative density	1	Not available.
Density	1	1,38 g/cm³ [20°C (68°F)] [DIN 53217]
Vapour density	1	>1 [Air = 1]
Explosive properties	:	Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. No unusual hazard if involved in a fire.
Oxidising properties	:	Not available.
Particle characteristics		
Median particle size	:	Not applicable.

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

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

Acute toxicity

Result	Species	Dose	Exposure
LD50 Oral	Rat	3161 mg/kg	-
LD50 Oral	Rat	1500 mg/kg	-
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	-
LC50 Inhalation Dusts and mists	Rat - Male, Female	0,171 mg/l	4 hours
LD50 Dermal LD50 Oral	Rabbit Rat	92,4 mg/kg 64 mg/kg	-
	LD50 Oral LD50 Oral LC50 Inhalation Dusts and mists LC50 Inhalation Dusts and mists LD50 Oral LC50 Inhalation Dusts and mists	LD50 OralRatLD50 OralRatLC50 Inhalation Dusts and mistsRatLC50 Inhalation Dusts and mistsRat - Male, Female Rat - Male Rat - Male Rat - Male, FemaleLD50 Oral LC50 Inhalation Dusts and mistsRat - Male, Female Rat - Male, FemaleLD50 Oral LC50 Inhalation Dusts and mistsRat - Male, Rat - Male Rat - Male, Rat - Male, FemaleLD50 DermalRabbit	LD50 OralRat3161 mg/kgLD50 OralRat1500 mg/kgLC50 Inhalation Dusts and mistsRat0,11 mg/lLC50 Inhalation Dusts and mistsRat - Male, Female Rat - Male, Rat - Male, Rat - Male, Rat - Male, Rat - Male, Rat - Male, Rat - Male, Pemale0,5 mg/lLD50 Oral mistsRat - Male, Female Rat - Male, Pemale0,171 mg/lLD50 DermalRabbit92,4 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)
melamine tris(2-chloro-1-methylethyl) phosphate 1,2-benzisothiazol-3(2H)-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)	3161 1500 490 64	N/A N/A N/A 92,4	N/A N/A N/A N/A	N/A N/A 0,5 N/A	N/A N/A N/A 0,171

Irritation/Corrosion

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation	
melamine	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-	
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)	Eyes - Severe irritant	Rabbit	-	-	-	
,	Skin - Severe irritant Skin - Severe irritant	Human Rabbit	-	0.01 Percent -	- 1 to 4 hours	

Conclusion/Summary

Skin

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

Eyes

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

Eyes Respiratory

: May cause damage to organs through prolonged or repeated exposure.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
1,2-benzisothiazol-3(2H)-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)	skin	Guinea pig Guinea pig	Sensitising Sensitising

Conclusion/Summary

Respiratory

Skin

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

Mutagenicity

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

Carcinogenicity

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	: Suspected of causing cancer.
Reproductive toxicity	
Conclusion/Summary	: Suspected of damaging fertility.
Teratogenicity	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
Specific target organ toxi	city (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
melamine	Category 2	-	urinary system

Aspiration hazard

Not available.

Information on likely routes : of exposure

: Routes of entry anticipated: Oral, Inhalation, Eyes. Routes of entry not anticipated: Dermal.

Potential acute health effects

Date of issue/Date of revision

SECTION 11: Toxicological information

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Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to t	he physical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

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 eff	<u>ects</u>
Not available.	
Conclusion/Summary	: Based on available data, the classification criteria are not met.
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging fertility.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

May cause endocrine disruption.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure	
1,2-benzisothiazol-3(2H)-one	Acute EC50 0,11 mg/l	Algae	72 hours	
	Acute EC50 0,067 mg/l	Algae - Pseudokirchneriella	72 hours	
		subcapitata		
	Acute EC50 0,9893 mg/l Marine water	Crustaceans - Opossum Shrimp	96 hours	
	Acute EC50 2,94 mg/l Fresh water	Daphnia spec.	48 hours	
	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 - <i>Phaseolus</i>	20 days	
		vulgaris		
	Chronic NOEC 1,2 mg/l	Daphnia spec.	21 days	
	Chronic NOEC 0,21 mg/l	Fish	28 days	
	Chronic NOEL 0,0403 mg/l	Algae	72 hours	
reaction mass of: 5-chloro-	Acute EC50 0,037 mg/l Fresh water	Algae	48 hours	
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)		Dankais an a	40 h a	
	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 Chronic NOEC 0,02 mg/l Fresh water	Daphnia spec. Fish	21 days	
	Children NOEC 0,02 High Fresh water		38 days	

Conclusion/Summary

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
1,2-benzisothiazol-3(2H)-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)	OECD 301D	>90 % - Readily - 1 days >60 % - Readily - 28 days	-	-
	-	<50 % - 10 days	-	-

Conclusion/Summary : This product has not been tested for biodegradation.			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
1,2-benzisothiazol-3(2H)-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)	-		Readily Readily

12.3 Bioaccumulative potential

SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential	
melamine tris(2-chloro-1-methylethyl) phosphate 1,2-benzisothiazol-3(2H)-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)	-0.83 to 0.75	<3.8 0.8 to 2.8 - -	Low Low Low Low	

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

May cause endocrine disruption.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

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

European waste catalogue (EWC)

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

SECTION 14: Transport information

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

user

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

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

SECTION 15: Regulatory information

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

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

Product/ingredient name		%	Designation [Usage]	
Zeroflame Aquasteel WB+		≥90	3	
Labelling				
Other EU regulations				
VOC	:			
VOC for Ready-for-Use Mixture	: 2004/42/EC	- IIA/i: 140o	g/l (2010). <= 15g/l VOC.	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed			
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed			
Explosive precursors	: Not applicab	ole.		
United Kingdom: Great Britain				
UK (GB)/REACH				
Annex XIV - List of substances subject to authorisation				
Annex XIV				

SECTION 15: Regulatory information

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.

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	Ing	redient name	Status
Not listed.			
CN code : 3209 9	00 00		
Inventory list			
Australia	: All components are	listed or exempted.	
Canada	: All components are	listed or exempted.	
China	: All components are	listed or exempted.	
Eurasian Economic U	nion : Russian Federation	on inventory: Not determined.	
Japan		CSCL): Not determined. ISHL): Not determined.	
New Zealand	: All components are	listed or exempted.	
Philippines	: All components are	e listed or exempted.	
Republic of Korea	: All components are	listed or exempted.	
Taiwan	: All components are	e listed or exempted.	
Thailand	: Not determined.		

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SECTION 15: Regulatory information

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

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SECTION 16: Other information

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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

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

Classification	Justification
Carc. 2, H351	Expert judgment
Repr. 2, H361f	Expert judgment
STOT RE 2, H373 (urinary tract)	Expert judgment

Full text of abbreviated H statements

United Kingdom: Great Britain

statements	H302 Hat H310 Fat H314 Cat H315 Cat H317 Ma H318 Cat H317 Ma H318 Cat H351 Sus H361f Sus H373 Ma exp H400	xic if swallowed. rmful if swallowed. tal in contact with skin. uses severe skin burns and eye damage. uses skin irritation. y cause an allergic skin reaction. uses serious eye damage. tal if inhaled. spected of causing cancer. spected of causing cancer. spected of damaging fertility. y cause damage to organs through prolonged or repeated posure. ry toxic to aquatic life. ry toxic to aquatic life with long lasting effects.
	H310 Fat H314 Cat H315 Cat H317 Ma H318 Cat H318 Cat H318 Cat H318 Cat H351 Sus H361f Sus H373 Ma exp H400	tal in contact with skin. uses severe skin burns and eye damage. uses skin irritation. y cause an allergic skin reaction. uses serious eye damage. tal if inhaled. spected of causing cancer. spected of damaging fertility. y cause damage to organs through prolonged or repeated posure. ry toxic to aquatic life.
	H314 Cat H315 Cat H317 Ma H318 Cat H318 Cat H318 Cat H317 Ma H318 Cat H317 Ma H351 Sus H361f Sus H373 Ma exp H400	uses severe skin burns and eye damage. uses skin irritation. ny cause an allergic skin reaction. uses serious eye damage. tal if inhaled. spected of causing cancer. spected of damaging fertility. ny cause damage to organs through prolonged or repeated posure. ry toxic to aquatic life.
	H315 Cat H317 Ma H318 Cat H330 Fat H351 Sus H361f Sus H373 Ma exp H400 Vet	uses skin irritation. by cause an allergic skin reaction. uses serious eye damage. tal if inhaled. spected of causing cancer. spected of damaging fertility. by cause damage to organs through prolonged or repeated posure. ry toxic to aquatic life.
	H317 Ma H318 Cau H330 Fat H351 Sus H361f Sus H373 Ma exp H400 Ver	by cause an allergic skin reaction. uses serious eye damage. tal if inhaled. spected of causing cancer. spected of damaging fertility. by cause damage to organs through prolonged or repeated posure. ry toxic to aquatic life.
	H318 Cat H330 Fat H351 Sus H361f Sus H373 Ma exp H400 Ver	uses serious eye damage. tal if inhaled. spected of causing cancer. spected of damaging fertility. y cause damage to organs through prolonged or repeated posure. ry toxic to aquatic life.
	H330 Fat H351 Sus H361f Sus H373 Ma exp H400 Ver	tal if inhaled. spected of causing cancer. spected of damaging fertility. y cause damage to organs through prolonged or repeated posure. ry toxic to aquatic life.
	H351 Sus H361f Sus H373 Ma exp H400 Ver	spected of causing cancer. spected of damaging fertility. y cause damage to organs through prolonged or repeated posure. ry toxic to aquatic life.
	H361f Sus H373 Ma exp H400 Ver	spected of damaging fertility. y cause damage to organs through prolonged or repeated posure. ry toxic to aquatic life.
	H373 Ma exp H400 Ver	y cause damage to organs through prolonged or repeated posure. ry toxic to aquatic life.
	exp H400 Ver	posure. ry toxic to aquatic life.
	H400 Vei	ry toxic to aquatic life.
	11110 101	ry toxic to aduatic life with long lasting effects
		xic to aquatic life with long lasting effects.
Full text of classifications :	Acute Tox. 2	ACUTE TOXICITY - Category 2
CLP/GHS]	Acute Tox. 3	ACUTE TOXICITY - Category 3
	Acute Tox. 4	ACUTE TOXICITY - Category 4
		SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
	Aquatic	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
	Chronic 1	
	Aquatic	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
	Chronic 2	
	Carc. 2	CARCINOGENICITY - Category 2
	Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
	Repr. 2	REPRODUCTIVE TOXICITY - Category 2
	Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
	Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
	Skin Sens. 1	SKIN SENSITISATION - Category 1
	Skin Sens. 1A	SKIN SENSITISATION - Category 1A
	STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
		EXPOSURE - Category 2
Date of printing :	17/03/2024	
Date of issue/Date of revision	: 15/09/2023 Dat	te of previous issue : 15/09/2023 Version : 4.01 17/1

SECTION 16: Other information

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Version	: 4.01

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.