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



# **SAFETY DATA SHEET**

Brosteel Ultra 60

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

1.1 Product identifier	
Product name	: Brosteel Ultra 60
Product description	: Coating.
Product type	: Liquid.
UFI	: 4R81-708M-G00E-PKVH

#### 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

Bollom Fire Protection Portobello Industrial Estate
Birtley County Durham
United Kingdom
DH3 2RE
Telephone no.: +44 (0) 191 4106611
Fax no.: +44 (0) 191 4920125
enquiries@tor-coatings.com
e-mail address of person : rpmeurohas@rustoleum.eu responsible for this SDS

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

#### **Supplier**

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

Hours of operation

: 24/7

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

2.1	<b>Classification of</b>	the substance or mixture
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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.

Date of issue/Date of revision	15/09/2023	Date of previous issue	: 15/09/2023
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### **SECTION 2: Hazards identification**

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#### 2.2 Label elements 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	1	Not applicable.
Prevention	:	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P260 - Do not breathe vapour or spray.</li> </ul>
Response	1	P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	4	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	4	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	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.

#### 2.3 Other hazards

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

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

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

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

Mixture

#### 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 fi	ron	n the substance or mixture
Hazards from the substance or mixture	1	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	1	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 procedures	:	Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
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#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
melamine	DNEL	Long term Inhalation	8,3 mg/m <sup>3</sup>	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	Workers	Local
· · ·	DNEL	Short term Inhalation	0,04 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	0,02 mg/m³	General population	Local
	DNEL	Short term Inhalation	0,04 mg/m <sup>3</sup>	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	<b>Compartment Detail</b>	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	Fresh water	3,39 ng/l	-
2-methyl-2H-isothiazol-3-one [EC no.			
220-239-6] (3:1)	Sewage Treatment	0,23 mg/l	
	Plant	0,25 mg/i	-
	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	0,23 mg/l	-
	Plant	Ŭ	
	Fresh water sediment	0,027 mg/kg	-
	Marine water sediment	0,027 mg/kg	-
	Soil	0,01 mg/kg	-

#### 8.2 Exposure controls

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

: 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.
<u>'es</u>
: 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.
: 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.
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#### **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 indicate his 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 ncluded 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. n some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

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

9.1 Information on basic physica	l a	nd 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	1	Not available.
Flash point	:	Not relevant due to nature of the product.
Auto-ignition temperature	1	Not relevant due to nature of the product.
Decomposition temperature	4	Not available.
рН	4	8 to 9,5 [Conc. (% w/w): 100%] [OECD 122]
pH : Justification	÷	Not available.
Viscosity	4	Not available.
Solubility(ies)	4	
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 (butyl acetate = 1)
Relative density		Not available.
Density	:	1,38 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	4	Not available.
Particle characteristics		
Median particle size	4	Not applicable.

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### **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		
melamine	LD50 Oral	Rat	3161 mg/kg	-		
tris(2-chloro-1-methylethyl) phosphate	LD50 Oral	Rat	1500 mg/kg	-		
1,2-benzisothiazol-3(2H)- one	LC50 Inhalation Dusts and mists	Rat	0,11 mg/l	4 hours		
	LC50 Inhalation Dusts and mists	Rat - Male, Female	0,5 mg/l	4 hours		
	LD50 Oral	Rat - Male	490 mg/kg	-		
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)	LC50 Inhalation Dusts and mists	Rat - Male, Female	0,171 mg/l	4 hours		
	LD50 Dermal	Rabbit	92,4 mg/kg	-		
	LD50 Oral	Rat	64 mg/kg	-		
<b>Conclusion/Summary</b> : 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)
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** 

:	Based on available data,	the classification criteria are not met.
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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	
<b>Conclusion/Summary</b>	: Suspected of damaging fertility.
Teratogenicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Specific target organ toxic	ity (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

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### **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	the 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**

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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 - Phaseolus	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)			
	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

**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 ha	is not been tested for biodegrad	ation.	

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**

5			
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
Not regulated.	Not regulated.	Not regulated.	Not regulated.
-	-	-	-
-	-	-	-
-	-	-	-
No.	No.	No.	No.
	Not regulated	Not regulated.       Not regulated.         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -	Not regulated.       Not regulated.         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -

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]	
Brosteel Ultra 60		≥90	3	
Labelling				
Other EU regulations				
VOC	:			
VOC for Ready-for-Use Mixture	: 2004/42/EC	- IIA/i: 140	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	le.		
United Kingdom: Great Bri	<u>tain</u>			
<u>UK (GB)/REACH</u>				
Annex XIV - List of substar	nces subject to	authorisat	<u>tion</u>	
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		Ingredient name	Status
Not listed.			
<b>CN code</b> : 3209 90 00	00	i	
Inventory list			
Australia	:	All components are listed or exempted.	
Canada	:	At least one component is not listed.	
China	:	All components are listed or exempted.	
<b>Eurasian Economic Union</b>	:	Russian Federation inventory: Not determined.	
Japan	:	Japan inventory (CSCL): At least one component is Japan inventory (ISHL): Not determined.	not listed.
New Zealand	:	All components are listed or exempted.	
Philippines	:	At least one component is not listed.	
Republic of Korea	:	All components are listed or exempted.	
Taiwan	:	At least one component is not listed.	
Thailand	:	Not determined.	
Turkey	:	Not determined.	
United States	:	Not determined.	
Viet Nam	:	Not determined.	

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

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

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

Indicates information the	hat has changed from previously issued version.
Abbreviations and acronyms	<ul> <li>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</li> </ul>

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

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

#### Full text of abbreviated H statements

#### United Kingdom: Great Britain

Full text of abbreviated H	H301 Toxic if swallowed.
statements	H302 Harmful if swallowed.
	H310 Fatal 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.
	H351 Suspected of causing cancer.
	H361f Suspected of damaging fertility.
	H373 May cause damage to organs through prolonged or repeated
	exposure.
	H400 Very toxic to aquatic life.
	H410 Very toxic to aquatic life with long lasting effects.
	H411 Toxic to aquatic life with long lasting effects.
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
	Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
	Aquatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
	Chronic 1
	Aquatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
	Chronic 2
	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
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Date of issue/Date of revision	: 15/09/2023 Date 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.