



SAFETY DATA SHEET

Bollom Flameguard Ultra Eggshell base

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

1.1 Product identifier

Product name : Bollom Flameguard Ultra Eggshell base
Product description : Coating.
Product type : Liquid.
UFI : 4J22-G0RC-000F-U895
Product code : BLM0013

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

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

1.3 Details of the supplier of the safety data sheet

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 responsible for this SDS : rpmeurohas@rustoleum.eu

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number Ireland : 809 2166
Available 8am to 10pm 7 days per week

Supplier

Telephone number Ireland : +353 19014670
Hours of operation : 24 / 7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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SECTION 2: Hazards identification

Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
General	: Not applicable.
Prevention	: P280 - Wear protective gloves.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: EUH208 - Contains 1,2-benzisothiazol-3(2H)-one (BIT). May produce an allergic reaction. EUH210 - Safety data sheet available on request.
Supplemental label elements : Detergents - Regulation (EC) No 907/2006	: Not applicable.
EU Biocidal Products Regulation (BPR), Article 58(3) Statement	: Contains a biocidal product (in-can preservative):(BIT)
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirements	
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 contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.

Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture
Ireland

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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
decabromodiphenyl ethane	REACH #: 01-2119474877-18 EC: 284-366-9 CAS: 84852-53-9	≤10	Not classified.	-	[3]
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5	≤3	Eye Irrit. 2, H319	-	[1] [2]
propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≤3	Not classified.	-	[2]
1,2-benzisothiazol-3(2H)-one (BIT)	REACH #: 01-2120761540-60 EC: 220-120-9 CAS: 2634-33-5 Index: 613-088-00-6	<0,036	Acute Tox. 4, H302 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0,21 mg/l Skin Sens. 1, H317: C ≥ 0,036% M [Acute] = 1 M [Chronic] = 1	[1]

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

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

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SECTION 4: First aid measures

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam, dry chemical or CO₂.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur 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, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. 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).

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SECTION 6: Accidental release measures

6.3 Methods and material for containment and cleaning up

Small spill

- : Stop leak if without risk. Move containers from spill area. Absorb with an inert 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. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contain and collect spillage with non-combustible, absorbent material e. g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
- : See Section 8 for information on appropriate personal protective equipment.
- : See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

Protective measures

- : Put on appropriate personal protective equipment (see Section 8).

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 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 / Biological exposure indices

Product/ingredient name	Exposure limit values
2-(2-butoxyethoxy)ethanol	NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 10 ppm. OELV 15 minutes: 101,2 mg/m ³ . OELV 8 hours: 67,5 mg/m ³ . OELV 15 minutes: 15 ppm.
propane-1,2-diol	NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs)

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SECTION 8: Exposure controls/personal protection

OELV 8 hours: 10 mg/m³. Form: particulate.
 OELV 8 hours: 470 mg/m³. Form: vapour and particulates.
 OELV 8 hours: 150 ppm. Form: vapour and particulates.

No exposure indices known.

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

DNELs/DMELs

Product/ingredient name	Result	Value	Effects
decabromodiphenyl ethane	DNEL - Workers - Long term - Inhalation DNEL - General population - Consumers - Long term - Inhalation DNEL - General population - Consumers - Long term - Oral	71 mg/m ³ 17,4 mg/m ³ 5 mg/kg bw/day	<u>Effects:</u> Systemic <u>Effects:</u> Systemic <u>Effects:</u> Systemic
2-(2-butoxyethoxy)ethanol	DNEL - Workers - Long term - Inhalation DNEL - Workers - Long term - Dermal DNEL - General population - Consumers - Short term - Inhalation DNEL - General population - Consumers - Long term - Inhalation DNEL - General population - Consumers - Long term - Dermal DNEL - Workers - Long term - Inhalation DNEL - General population - Long term - Oral DNEL - Workers - Long term - Inhalation	67,5 mg/m ³ 20 mg/kg bw/day 50,6 mg/m ³ 34 mg/m ³ 10 mg/kg bw/day 67,5 mg/m ³ 6,25 mg/kg bw/day 67,5 mg/m ³ 101,2 mg/m ³ 6,81 mg/m ³	<u>Effects:</u> Local <u>Effects:</u> Systemic <u>Effects:</u> Local <u>Effects:</u> Local <u>Effects:</u> Systemic <u>Effects:</u> Systemic <u>Effects:</u> Local <u>Effects:</u> Local
1,2-benzisothiazol-3(2H)-one (BIT)	DNEL - Workers - Short term - Inhalation DNEL - Workers - Long term - Inhalation	101,2 mg/m ³ 6,81 mg/m ³	<u>Effects:</u> Local <u>Effects:</u> Systemic

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SECTION 8: Exposure controls/personal protection

	DNEL - General population - Long term - Inhalation DNEL - Workers - Long term - Dermal DNEL - General population - Long term - Dermal	1,2 mg/m ³ 0,966 mg/kg bw/day 0,345 mg/kg bw/day	<u>Effects:</u> Systemic <u>Effects:</u> Systemic <u>Effects:</u> Systemic
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PNECs

Product/ingredient name	Result	Value	Remarks
decabromodiphenyl ethane	Soil	156 mg/kg dwt	-
	Sewage Treatment Plant	1 mg/l	-
	Fresh water sediment	100 mg/kg dwt	-
	Marine water sediment	10 mg/kg dwt	-
	Fresh water - Assessment Factors	1,1 mg/l	-
	Marine	0,11 mg/l	-
	Fresh water sediment - Equilibrium Partitioning	4,4 mg/kg	-
	Marine water sediment - Equilibrium Partitioning	0,44 mg/kg	-
	Sewage Treatment Plant - Assessment Factors	200 mg/l	-
	Soil - Equilibrium Partitioning	0,32 mg/kg	-
2-(2-butoxyethoxy)ethanol	Secondary Poisoning - Assessment Factors	56 mg/kg	-
	Fresh water	0,00403 mg/l	-
	Marine water	0,000403 mg/l	-
	Sewage Treatment Plant	1,03 mg/l	-
	Fresh water sediment	0,0499 mg/kg dwt	-
	Marine water sediment	0,00499 mg/kg dwt	-
	Soil	3 mg/kg dwt	-
1,2-benzisothiazol-3(2H)-one (BIT)			

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. 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.	
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. > 8 hours (breakthrough time): nitrile rubber (0.5mm) The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: (EN 467) Wear overalls or long sleeved shirt.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour filter (Type A) particulate filter (EN 140)
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Various
Odour	: Not available.
Odour threshold	: Not available.
Melting point/freezing point	: 0°C [Literature (water)]

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SECTION 9: Physical and chemical properties

Initial boiling point and boiling range	: <input checked="" type="checkbox"/> 100°C (212°F) [Literature (water)]
Flammability (solid, gas)	: <input checked="" type="checkbox"/> Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Non-flammable but will burn on prolonged exposure to flame or high temperature.
Lower and upper explosion limit	: <input checked="" type="checkbox"/> Does not contain sufficient volatile flammable components to form an explosive atmosphere under normal conditions of use.
Flash point	: Not relevant due to nature of the product.
Auto-ignition temperature	: Not relevant due to nature of the product.
Decomposition temperature	: <input checked="" type="checkbox"/> Not available.
pH	: <input checked="" type="checkbox"/> 8,8 [Conc. (% w/w): 100%] [OECD 122]
pH : Justification	: <input checked="" type="checkbox"/> Not available.
Viscosity	: <input checked="" type="checkbox"/> Dynamic (room temperature): 800 mPa·s [ISO 2431] Kinematic (room temperature): 586 to 619 mm ² /s Kinematic (40°C): Not available.
Solubility(ies)	:
Media	Result
cold water	Soluble
hot water	Soluble
methanol	Very slightly soluble
acetone	Very slightly soluble
Solubility in water	: <input checked="" type="checkbox"/> Not available.
Partition coefficient: n-octanol/ water	: <input checked="" type="checkbox"/> Not applicable.
Vapour pressure	: <input checked="" type="checkbox"/> 2,3 kPa (17,25 mm Hg) [Literature (water)]
Evaporation rate	: <input checked="" type="checkbox"/> 1 (butyl acetate = 1) [Literature]
Relative density	: <input checked="" type="checkbox"/> Not available.
Density	: <input checked="" type="checkbox"/> 1,262 to 1,322 g/cm ³ [20°C (68°F)] [DIN 53217]
Vapour density	: <input checked="" type="checkbox"/> 1 [Air = 1] [Literature]
Explosive properties	: <input checked="" type="checkbox"/> 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	: <input checked="" type="checkbox"/> Not available.
Particle characteristics	
Median particle size	: <input checked="" type="checkbox"/> 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.

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SECTION 10: Stability and reactivity

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	Value
Decabromodiphenyl ethane	Rat - Oral - LD50	5000 mg/kg
	Rabbit - Dermal - LD50	2000 mg/kg
2-(2-butoxyethoxy)ethanol	Mouse - Oral - LD50	2400 mg/kg
	Rabbit - Dermal - LD50	2700 mg/kg
	Mouse - Male - Oral - LD50	2410 mg/kg
1,2-benzisothiazol-3(2H)-one (BIT)	Rat - Oral - LD50	3305 mg/kg
	Rat - Inhalation - LC50 Dusts and mists	58 mg/l [4 hours]
	Rat - Male - Oral - LD50	490 mg/kg
	Rat - Male, Female - Inhalation - LC50 Dusts and mists	0,5 mg/l [4 hours]
	Rat - Inhalation - LC50 Dusts and mists	0,11 mg/l [4 hours]

Conclusion/Summary [Product] : 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)
Decabromodiphenyl ethane	5000	N/A	N/A	N/A	N/A
2-(2-butoxyethoxy)ethanol	3305	2700	N/A	N/A	58
1,2-benzisothiazol-3(2H)-one (BIT)	450	N/A	N/A	N/A	0,21

Skin corrosion/irritation

Not available.

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

Ingredient name

1,2-benzisothiazol-3(2H)-one (BIT)

Conclusion/Summary

Causes skin irritation.

Serious eye damage/eye irritation

Not available.

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

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SECTION 11: Toxicological information

Ingredient name

1,2-benzisothiazol-3(2H)-one (BIT)

Conclusion/Summary

Risk of serious damage to eyes.

Respiratory corrosion/irritation

Not available.

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

Respiratory or skin sensitization

Product/ingredient name	Species - Route of exposure	Result
1,2-benzisothiazol-3(2H)-one (BIT)	Guinea pig - skin	<u>Result:</u> Sensitising

Skin

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

Respiratory

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

Germ cell mutagenicity

Not available.

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

Ingredient name

2-(2-butoxyethoxy)ethanol

Conclusion/Summary

No mutagenic effect.

Carcinogenicity

Not available.

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

Reproductive toxicity

Not available.

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

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

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SECTION 11: Toxicological information

Not available.

Potential acute health effects

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 : No specific data.
Skin contact : No specific data.
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 effects

Not available.

Conclusion/Summary [Product] : Not available.

General : No known significant effects or critical hazards.
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.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species
2-(2-butoxyethoxy)ethanol	Acute - EC50 2850 mg/l [48 hours]	Daphnia spec.
	Acute - NOEC >100 mg/l [96 hours]	Algae - Algae
	Acute - EC50 - Fresh water 1300 mg/l [96 hours]	Fish - Bluegill sunfish (lepisomis macrochirus)
	Acute - EC50 - Fresh water 1101 mg/l [48 hours]	Daphnia spec.

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1,2-benzisothiazol-3(2H)-one (BIT)	Acute - EC10 - Fresh water 1995 mg/l [30 minutes]	Micro-organism
	Chronic - EC10 112 mg/l [14 days]	Daphnia spec.
	Acute - EC50 - Fresh water 3300 mg/l [24 hours]	Daphnia spec.
	Acute - EC50 0,067 mg/l [72 hours]	Algae
	Acute - EC50 - Fresh water 2,94 mg/l [48 hours]	Daphnia spec. - Daphnia spec.
	Acute - EC50 - Marine water 0,9893 mg/l [96 hours]	Crustaceans
	Chronic - NOEC 0,21 mg/l [28 days]	Fish - Rainbow trout (oncorhynchus mykiss)
	Chronic - NOEC 1,2 mg/l [21 days]	Daphnia spec. - Daphnia spec.
	Chronic - NOEC 90 mg/l [20 days]	Aquatic plants
	Acute - LC50 8 to 13 mg/l [96 hours]	Fish
	Acute - LC50 - Fresh water 2,18 mg/l [96 hours]	Fish - Rainbow trout (oncorhynchus mykiss)
	Acute - EC50 0,11 mg/l [72 hours]	Algae - Algae
	Chronic - NOEL 0,0403 mg/l [72 hours]	Algae - Algae
	Acute - LC50 - Fresh water 167 ppb [96 hours]	Fish - Rainbow trout, donaldson trout
	Acute - EC50 - Fresh water 97 ppb [48 hours]	Daphnia spec. - Water flea

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result
1,2-benzisothiazol-3(2H)-one (BIT)	-	>90% [1 days] - Readily

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-butoxyethoxy)ethanol	-	-	Readily
1,2-benzisothiazol-3(2H)-one (BIT)	-	-	Readily

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SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
decabromodiphenyl ethane	3,55	<25	Low
2-(2-butoxyethoxy)ethanol	1	-	Low
1,2-benzisothiazol-3(2H)-one (BIT)	0,64	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
decabromodiphenyl ethane	5,6	366680
2-(2-butoxyethoxy)ethanol	1,6	36,5981
1,2-benzisothiazol-3(2H)-one (BIT)	1,9	73,142

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
decabromodiphenyl ethane	No	No	No	No	No	No	No
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one (BIT)	No	No	No	No	No	No	No

Mobility : Nonvolatile liquid.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
decabromodiphenyl ethane	No	Yes	Yes	No	Yes	Yes	Yes
2-(2-butoxyethoxy)ethanol	No	N/A	N/A	No	N/A	N/A	N/A
1,2-benzisothiazol-3(2H)-one (BIT)	No	N/A	N/A	No	N/A	N/A	N/A

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
decabromodiphenyl ethane	No	No	No	No	No	No	No
2-(2-butoxyethoxy)ethanol	No	No	No	No	No	No	No
1,2-benzisothiazol-3(2H)-one (BIT)	No	No	No	No	No	No	No

Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.

Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

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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

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 12	waste paint and varnish other than those mentioned in 08 01 11

Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	☒	☒	☒	☒
14.3 Transport hazard class(es)	☒	☒	☒	☒
14.4 Packing group	☒	☒	☒	☒
14.5 Environmental hazards	☒	☒	☒	☒

Additional information ADR

Additional information ADN

Additional information IMDG

Additional information IATA

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.

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SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
MPvB	decabromodiphenyl ethane	Candidate	-	05/11/2025

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

No listed substance

Labelling : Not applicable.

Synthetic polymer microparticles - Designation 78

Generic identity of polymer(s) : Not applicable.

Total percentage of synthetic polymer microparticles : Not applicable.

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use Mixture : 2004/42/EC - IIA/i: 140g/l (2010). <= 30g/l VOC.

Industrial emissions (integrated pollution prevention and control) - Air

Industrial emissions (integrated pollution prevention and control) - Water

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

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

Not listed.

Persistent Organic Pollutants (850/2004/EC)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

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SECTION 15: Regulatory information

Ireland

Biocidal products regulation

: Not applicable.

References

: Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001 (S.I. No. 619 of 2001)
Safety, Health and Welfare at Work (Carcinogens) Regulations 2001 (S.I. No. 78 of 2001)
Safety, Health and Welfare at Work (General Application) Regulations 2007
Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878
REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

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 : 209 90 00 00

Inventory list

Australia	: <input checked="" type="checkbox"/> At least one component is not listed.
Canada	: <input checked="" type="checkbox"/> At least one component is not listed.
China	: <input checked="" type="checkbox"/> At least one component is not listed.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: <input checked="" type="checkbox"/> Japan inventory (CSCL): At least one component is not listed. <input checked="" type="checkbox"/> Japan inventory (ISHL): Not determined.
New Zealand	: <input checked="" type="checkbox"/> At least one component is not listed.
Philippines	: <input checked="" type="checkbox"/> Not determined.
Republic of Korea	: <input checked="" type="checkbox"/> At least one component is not listed.
Taiwan	: <input checked="" type="checkbox"/> At least one component is not listed.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: <input checked="" type="checkbox"/> Not determined.
United States	: <input checked="" type="checkbox"/> Not determined.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

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

► Indicates information that has changed from previously issued version.

Abbreviations and acronyms

- : ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- SGG = Segregation Group
- vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Ireland

Full text of abbreviated H statements

- : H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

- : Acute Tox. 2 ACUTE TOXICITY - Category 2
- 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
- Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
- Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
- Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2
- Skin Sens. 1A SKIN SENSITISATION - Category 1A

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Version : 1

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

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

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SECTION 16: Other information

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.