



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

SAFETY DATA SHEET

GARDEN SHADES

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

1.1 Product identifier

Product name : GARDEN SHADES

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

Identified uses
Consumer use
Uses advised against
None

Product use : Waterborne coating for exterior use.

1.3 Details of the supplier of the safety data sheet

ICI Paints AkzoNobel
Wexham Road
Slough
Berkshire
SL2 5DS, U.K.
Tel.: +44 (0) 333 222 71 71
www.cuprinol.co.uk

e-mail address of person responsible for this SDS : cuprinol.advice@akzonobel.com

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : +44 (0)344 892 0111

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]

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

Signal word : No signal word.

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1/19

AkzoNobel

SECTION 2: Hazards identification

Hazard statements	: H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	: P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	: P273 - Avoid release to the environment.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national or international regulations.
Supplemental label elements	: Contains 1,2-benzisothiazol-3(2H)-one and CMIT/MIT(3:1). May produce an allergic reaction.
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 does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
2-methoxymethylethoxy propanol	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤0.3	Not classified.	-	[2]
IPBC	REACH #: 01-2120762115-60 EC: 259-627-5 CAS: 55406-53-6	<0.1	Acute Tox. 4, H302 Acute Tox. 2, H330 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 1, H372 (larynx) (inhalation) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1056 mg/kg ATE [Inhalation (dusts and mists)] = 0.17 mg/l M [Acute] = 10 M [Chronic] = 10	[1]
bronopol (INN)	REACH #: 01-2119980938-15 EC: 200-143-0	≤0.1	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315	ATE [Oral] = 500 mg/kg ATE [Dermal] =	[1]

SECTION 3: Composition/information on ingredients

1,2-benzisothiazol-3(2H)-one	CAS: 52-51-7		Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	1100 mg/kg M [Acute] = 10	
	REACH #: 01-2120761540-60 EC: 220-120-9 CAS: 2634-33-5	<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	ATE [Oral] = 450 mg/kg ATE [Inhalation (dusts and mists)] = 0.21 mg/l Skin Sens. 1A, H317: C ≥ 0.036% M [Acute] = 1 M [Chronic] = 1	[1]
CMIT/MIT(3:1)	REACH #: 01-2120764691-48 EC: 911-418-6 CAS: 55965-84-9 Index: 613-167-00-5	<0.0015	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 64 mg/kg ATE [Dermal] = 78.12 mg/kg ATE [Inhalation (dusts and mists)] = 0.33 mg/l Skin Corr. 1C, H314: C ≥ 0.6% Skin Irrit. 2, H315: 0.06% ≤ C < 0.6% Eye Dam. 1, H318: C ≥ 0.6% Eye Irrit. 2, H319: 0.06% ≤ C < 0.6% Skin Sens. 1A, H317: C ≥ 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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

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 for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses if easy to do. Get medical attention if irritation occurs.
- Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact : Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.
- 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.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

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.
Unsuitable extinguishing media	: None known.

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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	:  Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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 spilled material. Put on appropriate personal protective equipment.
For emergency responders	: If specialized 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".

SECTION 6: Accidental release measures

- 6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
- 6.3 Methods and materials 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. Approach release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilled product. 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Ensure spraying away from persons. Avoid inhalation of vapor, spray or mist. 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 unlabeled 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

Product/ingredient name	Exposure limit values
2-methoxymethylethoxy)propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. TWA 8 hours: 308 mg/m³. TWA 8 hours: 50 ppm.
Zirconium, acetate lactate oxo ammonium complexes	EH40/2005 WELs (United Kingdom (UK), 1/2020) [zirconium compounds] STEL 15 minutes: 10 mg/m³ (as Zr). TWA 8 hours: 5 mg/m³ (as Zr).
Ammonia, aqueous solution	EH40/2005 WELs (United Kingdom (UK), 1/2020) [ammonia] STEL 15 minutes: 25 mg/m³. Form: anhydrous. STEL 15 minutes: 35 ppm. Form: anhydrous. TWA 8 hours: 25 ppm. Form: anhydrous. TWA 8 hours: 18 mg/m³. Form: anhydrous.
glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020) TWA 8 hours: 10 mg/m³. Form: Mist.
Paraffin waxes and Hydrocarbon waxes	EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 6 mg/m³. Form: Fume. TWA 8 hours: 2 mg/m³. Form: Fume.
Crystalline Silica, respirable part in whole product, <10µm	EH40/2005 WELs (United Kingdom (UK), 1/2020) [silica, respirable crystalline] Carc. TWA 8 hours: 0.1 mg/m³. Form: Respirable fraction.
methyl methacrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020) STEL 15 minutes: 416 mg/m³. STEL 15 minutes: 100 ppm. TWA 8 hours: 208 mg/m³. TWA 8 hours: 50 ppm.
1,4-dioxane	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed through skin. TWA 8 hours: 20 ppm. TWA 8 hours: 73 mg/m³.
ethylene oxide	EH40/2005 WELs (United Kingdom (UK), 1/2020) Carc. Absorbed through skin. TWA 8 hours: 1 ppm. TWA 8 hours: 1.8 mg/m³.

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

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Type	Exposure	Value	Population	Effects
2-methoxymethylethoxy)propanol	DNEL	Long term Oral	36 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	37.2 mg/m³	General population	Systemic
	DNEL	Long term Dermal	121 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	283 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	308 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	0.023 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	0.07 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	1.16 mg/m³	Workers	Local
	DNEL	Long term Inhalation	1.16 mg/m³	Workers	Local
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
IPBC	DNEL	Short term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	1.8 mg/m³	General population	Systemic
	DNEL	Short term Dermal	2.1 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	10.5 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	4 µg/cm²	General population	Local
	DNEL	Long term Dermal	4 µg/cm²	General population	Local
	DNEL	Short term Dermal	8 µg/cm²	Workers	Local
	DNEL	Long term Dermal	8 µg/cm²	Workers	Local
	DNEL	Long term Oral	0.18 mg/kg bw/day	General population	Systemic
bronopol (INN)	DNEL	Short term Inhalation	0.6 mg/m³	General population	Local
	DNEL	Long term Inhalation	0.6 mg/m³	General population	Local
	DNEL	Long term Inhalation	0.6 mg/m³	General population	Systemic
	DNEL	Long term Dermal	0.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	2.5 mg/m³	Workers	Local
	DNEL	Long term Inhalation	2.5 mg/m³	Workers	Local
	DNEL	Long term Inhalation	3.5 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	0.345 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.966 mg/kg bw/day	Workers	Systemic
1,2-benzisothiazol-3(2H)-one					

SECTION 8: Exposure controls/personal protection

CMIT/MIT(3:1)	DNEL	Long term Inhalation	1.2 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	6.81 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	0.02 mg/m³	General population	Local
	DNEL	Long term Inhalation	0.02 mg/m³	Workers	Local
	DNEL	Short term Inhalation	0.04 mg/m³	General population	Local
	DNEL	Short term Inhalation	0.04 mg/m³	Workers	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
PBC	Sewage Treatment Plant	0.44 mg/l	Assessment Factors
	Fresh water sediment	0.017 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.002 mg/kg dwt	Equilibrium Partitioning
	Soil	0.005 mg/kg dwt	Assessment Factors

8.2 Exposure controls

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

Individual protection measures

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. 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

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.

When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness ≥ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness ≥ 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material.

SECTION 8: Exposure controls/personal protection

- The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
- 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.
- 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. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Wear a respirator conforming to EN140 with type A/P2 filter or better.
- 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

Appearance

- Physical state** : Liquid.
- Color** : Brown.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : 100°C (212°F)
- Flammability** : Not available.
- Lower and upper explosion limit** : Not available.
- Flash point** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- pH** : 8.5 [Conc. (% w/w): 100%] [DIN EN 1262]
- Viscosity** : Kinematic (room temperature): 644 mm²/s [DIN EN ISO 3219]
Kinematic (40°C): Not applicable. [DIN EN ISO 3219]
- Solubility(ies)** :

Media	Result
cold water	Soluble [OECD (TG 105)]
cold water	Soluble [OECD (TG 105)]
cold water	Soluble [OECD (TG 105)]

SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/ water : Not applicable.

Vapor pressure : Not available.

Relative density : 1.102

Vapor density : Not available.

Particle characteristics

Median particle size : Not applicable.

Percentage of particles with aerodynamic diameter ≤ 10 µm : 0

Minimum ignition energy (mJ) : Not available.

Fundamental burning velocity : Not applicable.

SADT : Not available.

Heat of combustion : Not available.

Aerosol product

Type of aerosol : 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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-methoxymethylethoxy) propanol	LD50 Dermal	Rabbit	10 mL/kg	-
	LD50 Oral	Rat	5.5 mL/kg	-
	LD50 Oral	Rat	5400 µL/kg	-
	LC50 Inhalation Dusts and mists	Rat	0.68 mg/l	4 hours
IPBC	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat - Female	1056 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	800 mg/m³	4 hours
bronopol (INN)				

SECTION 11: Toxicological information

1,2-benzisothiazol-3(2H)-one CMIT/MIT(3:1)	LD50 Dermal	Mouse	4750 mg/kg	-
	LD50 Dermal	Rat	64 mg/kg	-
	LD50 Intraperitoneal	Mouse	32.8 mg/kg	-
	LD50 Intraperitoneal	Mouse	15500 µg/kg	-
	LD50 Intraperitoneal	Rat	22 mg/kg	-
	LD50 Intraperitoneal	Rat	26 mg/kg	-
	LD50 Intravenous	Mouse	48 mg/kg	-
	LD50 Intravenous	Rat	37400 µg/kg	-
	LD50 Oral	Mouse	270 mg/kg	-
	LD50 Oral	Mouse	194 mg/kg	-
	LD50 Oral	Rabbit	190 mg/kg	-
	LD50 Oral	Rat	180 mg/kg	-
	LD50 Oral	Rat	267 mg/kg	-
	LD50 Oral	Rat	254 mg/kg	-
	LD50 Oral	Rat	342 mg/kg	-
	LD50 Subcutaneous	Mouse	116 mg/kg	-
	LD50 Subcutaneous	Rat	170 mg/kg	-
	LD50 Subcutaneous	Rat	200 mg/kg	-
	LD50 Oral	Mouse	1150 mg/kg	-
	LD50 Oral	Rat	1020 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.33 mg/l	4 hours
	LD50 Dermal	Rabbit - Male	78.12 mg/kg	-
	LD50 Oral	Rat - Male	64 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
3-iodo-2-propynyl butylcarbamate	1056	N/A	N/A	N/A	0.17
bronopol	500	1100	N/A	N/A	N/A
1,2-benzisothiazol-3(2H)-one	450	N/A	N/A	N/A	0.21
CMIT/MIT(3:1)	64	78.12	N/A	N/A	0.33

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-methoxymethylethoxy) propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
IPBC bronopol (INN)	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Cornea opacity	Rabbit	-	-	14 days
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	80 mg	-

Conclusion/Summary : Not available.

Sensitization

Conclusion/Summary : Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
IPBC	-	Experiment: In vitro Subject: Bacteria	Negative

Conclusion/Summary : Not available.

SECTION 11: Toxicological information

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
PBC	Negative	-	Negative	Rabbit - Female	Oral: 20 mg/kg	13 days; 7 days per week

Conclusion/Summary : Not available.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
PBC	Negative - Oral	Rabbit - Female	50 mg/kg	-

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ronopol (INN)	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
PBC	Category 1	inhalation	larynx

Aspiration hazard

Not available.

Information on the likely routes of exposure : 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 and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects : Not available.
- Potential delayed effects : Not available.

Long term exposure

SECTION 11: Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
PBC	Sub-chronic NOAEL Dermal	Rat	200 mg/kg	90 days
	Sub-acute NOAEL Oral	Rabbit - Male, Female	13 mg/kg	-
	Chronic NOAEL Oral	Rat	20 mg/kg	2 years
	Sub-chronic NOAEL Oral	Rat	35 mg/kg	90 days
	Sub-chronic NOAEL Inhalation Vapor	Rat	1.16 mg/m³	90 days

Conclusion/Summary : 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.

11.2.2 Other information

No additional information.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

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

Product/ingredient name	Result	Species	Exposure
PBC	Acute EC50 956 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 0.16 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 500 ppb Fresh water	Crustaceans - <i>Hyalella azteca</i>	48 hours
	Acute LC50 2920 ppb Marine water	Crustaceans - <i>Neomysis mercedis</i> - Adult	48 hours
	Acute LC50 40 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 95 ppb Marine water	Fish - <i>Oncorhynchus kisutch</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 100 ppb Fresh water	Fish - <i>Oncorhynchus mykiss</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 72 ppb Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Acute LC50 67 ppb Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Acute LC50 67 µg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 8.4 ppb	Fish - <i>Pimephales promelas</i>	35 days
	Acute EC50 0.02 ppm Fresh water	Algae - <i>Desmodesmus subspicatus</i>	96 hours
	Acute EC50 0.41 ppm Fresh water	Algae - <i>Navicula pelliculosa</i>	96 hours

SECTION 12: Ecological information

1,2-benzisothiazol-3(2H)-one	Acute EC50 0.22 ppm Fresh water	Algae - <i>Pseudokirchneriella subcapitata</i>	96 hours
	Acute EC50 0.18 ppm Marine water	Algae - <i>Skeletonema costatum</i>	96 hours
	Acute EC50 1.6 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 36 ppm Fresh water	Fish - <i>Lepomis macrochirus</i>	96 hours
	Acute LC50 11.17 ppm Fresh water	Fish - <i>Lepomis macrochirus</i>	96 hours
	Acute LC50 41.5 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Acute LC50 20 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Acute LC50 26.4 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Chronic NOEC 1.94 ppm	Fish - <i>Oncorhynchus mykiss</i>	49 days
	Chronic NOEC 1.94 ppm	Fish - <i>Oncorhynchus mykiss</i>	49 days
	Acute EC50 97 ppb Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 2.24 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 3.7 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 1.1 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute EC50 2 ppm Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 10 to 20 mg/l Fresh water	Crustaceans - <i>Ceriodaphnia dubia</i>	48 hours
	Acute LC50 540 ppb Fresh water	Fish - <i>Lepomis macrochirus</i>	96 hours
	Acute LC50 167 ppb Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Acute LC50 0.75 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Acute LC50 1.8 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Acute LC50 1.6 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
PBC	OECD 310F	25 % - Readily - 28 days	1.03 gO ₂ /g	30 mg/l Activated sludge

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
PBC	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
(2-methoxymethylethoxy) propanol	0.004	-	Low
bronopol (INN)	0.18	-	Low

12.4 Mobility in soil

Soil/Water partition coefficient : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

SECTION 12: Ecological information

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

- Methods of disposal** : The generation of waste should be avoided or minimized 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** : The classification of the product may meet the criteria for a hazardous waste.
- Disposal considerations** : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

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

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

Packaging

- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
- 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG
14.1 UN number or ID number	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-
14.3 Transport hazard class(es)	-	-
14.4 Packing group	-	-

SECTION 14: Transport information		
14.5 Environmental hazards	No.	No.

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

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
UK (GB)/REACH

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

☒ None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

VOC : 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 : Not available.

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Ozone depleting substances (EU 2024/590)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

SECTION 15: Regulatory information

Product/ingredient name	List name	Name on list	Classification	Notes
Crystalline Silica, respirable part in whole product, <10µm	EH40/2005 WELs	silica, respirable crystalline	Carc	-
ethylene oxide	EH40/2005 WELs	-	Carc	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.

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
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H220 H225 H280 H301 H302 H310 H312 H314 H315 H317 H318 H319	Extremely flammable gas. Highly flammable liquid and vapor. Contains gas under pressure; may explode if heated. Toxic if swallowed. Harmful if swallowed. Fatal in contact with skin. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation.
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SECTION 16: Other information

H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH019	May form explosive peroxides.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Carc. 1B	CARCINOGENICITY - Category 1B
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Muta. 1B	GERM CELL MUTAGENICITY - Category 1B
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

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Notice to reader

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SECTION 16: Other information

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