

SAFETY DATA SHEET

STERISHIELD DIAMOND MATT LIGHT BASE

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

1.1 Product identifier

Product name : STERISHIELD DIAMOND MATT LIGHT BASE

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

Professional use
Consumer use

Uses advised against
None

Product use : Waterborne coating for interior 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 70 70 www.duluxtrade.co.uk

e-mail address of person responsible for this SDS

: duluxtrade.advice@akzonobel.com

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : +44 (0)344 892 0111

Supplier

Telephone number : Emergency Telephone : Slough +44 (0) 1753 550000

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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.

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 and international regulations.

Supplemental label

elements

: Contains CMIT/MIT(3:1) and 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed.

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

Do not breathe spray or mist.

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

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.

vPvB.

1907/2006, Annex XIII Other hazards which do

: None known.

not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥15 - ≤20	Carc. 2, H351 (inhalation)	-	[1] [*]
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 Index: 603-096-00-8	≤0.3	Eye Irrit. 2, H319	-	[1] [2]
bronopol (INN)	EC: 200-143-0 CAS: 52-51-7 Index: 603-085-00-8	≤0.1	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg M [Acute] = 10	[1]
silver chloride	REACH #: 01-2119967399-16 EC: 232-033-3 CAS: 7783-90-6	≤0.02	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1000 M [Chronic] = 100	[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] = 100 mg/kg ATE [Dermal] = 50 mg/kg ATE [Inhalation (dusts and mists)] = 0.05 mg/l Skin Corr. 1C, 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]
3(2H)-Isothiazolone, 2-methyl-	EC: 220-239-6 CAS: 2682-20-4	<0.0015	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.05 mg/l Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 10 M [Chronic] = 1	[1]

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

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

Type

- [1] Substance classified with a physical, health or environmental hazard
- [2] Substance with a workplace exposure limit
- [*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 μm not bound within a matrix.

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 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: 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.

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

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.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains CMIT/MIT(3:1), 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

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.

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SECTION 4: First aid measures

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 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.

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".

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. 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.

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SECTION 6: Accidental release measures

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. 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 spilled 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). 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. 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 : Not available.

solutions

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-(2-butoxyethoxy)ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67.5 mg/m³ 8 hours. STEL: 101.2 mg/m³ 15 minutes.

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SECTION 8: Exposure controls/personal protection

procedures

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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	Туре	Exposure	Value	Population	Effects
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	6.25 mg/	General	Systemic
	1		kg bw/day	population	
	DNEL	Long term	67.5 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term	101.2 mg/	Workers	Local
broponal (INN)	DNEL	Inhalation Short term Dermal	m³ 0.004 mg/	General	Local
bronopol (INN)	DIVEL	Short term Dermai	cm ²	population	Local
	DNEL	Long term Dermal	0.004 mg/	General	Local
		Long tomi Domiai	cm ²	population	Local
	DNEL	Short term Dermal	0.008 mg/	Workers	Local
			cm²		
	DNEL	Long term Dermal	0.008 mg/	Workers	Local
	1		cm²		
	DNEL	Long term Oral	0.18 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term Oral	0.5 mg/kg	General	Systemic
	DNE	Short term	bw/day	population General	Local
	DNEL	Inhalation	0.6 mg/m ³	population	Local
	DNEL	Long term	0.6 mg/m ³	General	Systemic
		Inhalation	0.01119/111	population	Cycloniio
	DNEL	Long term Dermal	0.7 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Short term	1.8 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	2 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	2.1 mg/kg	General	Systemic
			bw/day	population	l
	DNEL	Short term Inhalation	2.5 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	2.5 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	3.5 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	10.5 mg/m ³	Workers	Systemic
silver chloride	DNEL	Long term	0.053 mg/	General	Systemic
		Inhalation	m ³	population	
	DNEL	Long term Inhalation	0.13 mg/m ³		Systemic

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SECTION 8: Exposure controls/personal protection

	DNEL	Long term Oral	1.59 mg/	General	Systemic
			kg bw/day	population	-
CMIT/MIT(3:1)	DNEL	Long term	0.02 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	0.02 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	0.04 mg/m ³		Local
		Inhalation		population	
	DNEL	Short term	0.04 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term Oral	0.09 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term Oral	0.11 mg/	General	Systemic
	5.151		kg bw/day	population	
3(2H)-Isothiazolone, 2-methyl-	DNEL	Long term	0.021 mg/	General	Local
	DATE	Inhalation	m³	population	
	DNEL	Long term	0.021 mg/	Workers	Local
	האובו	Inhalation	m ³	0	0
	DNEL	Long term Oral	0.027 mg/	General	Systemic
	DNE	Chart tarm	kg bw/day	population	Local
	DNEL	Short term	0.043 mg/	General	Local
	DNE	Inhalation	m ³	population	Local
	DNEL	Short term	0.043 mg/	Workers	Local
	DNE	Inhalation	m ³	Conoral	Customia
	DNEL	Short term Oral	0.053 mg/	General	Systemic
			kg bw/day	population	

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
silver chloride	Fresh water	0.04 µg/l	Sensitivity Distribution
	Marine water	0.86 µg/l	Assessment Factors
	Sewage Treatment Plant	0.025 mg/l	Assessment Factors
	Fresh water sediment	438.13 mg/kg dwt	Assessment Factors
	Marine water sediment	438.13 mg/kg dwt	Assessment Factors
	Soil	0.794 mg/kg dwt	Equilibrium Partitioning
n-butyl acrylate	Fresh water	0.003 mg/l	Assessment Factors
, .	Sewage Treatment Plant	3.5 mg/l	Assessment Factors
	Fresh water sediment Marine water sediment	0.034 mg/kg dwt 0.003 mg/kg dwt	Assessment Factors
	Soil	1 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.

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SECTION 8: Exposure controls/personal protection

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 \circledR or Nitrile, thickness \trianglerighteq 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.

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.

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 : White.

Odor : Characteristic.
Odor threshold : Not available.
Melting point/freezing point : Not available.
Boiling point, initial boiling point, and boiling range

Flammability: Not available.

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SECTION 9: Physical and chemical properties

Lower and upper explosion

limit

Greatest known range: Lower: 0.6% Upper: 4.2% (isobutyric acid, monoester

with 2,2,4-trimethylpentane-1,3-diol)

Flash point : Not available.

Auto-ignition temperature

Ingredient name	°C	°F	Method
2-(2-butoxyethoxy)ethanol	210	410	DIN 51794
n-butyl acrylate	275	527	
n-butyl methacrylate	290	554	

Decomposition temperature: Not available.

pH : 8 [Conc. (% w/w): 100%] [DIN EN 1262]

Viscosity : Kinematic (room temperature): 504 mm²/s [DIN EN ISO 3219]

Kinematic (40°C): Not applicable. [DIN EN ISO 3219]

Solubility(ies) :

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

Partition coefficient: n-octanol/ : Not applicable.

water

Vapor pressure :

	V	Vapor Pressure at 20°C		V	Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
ammonia	360.03	48						
ethanol	42.95	5.7						
styrene	6.4	0.85						

Relative density : 1.391

Vapor density : Not available.

Particle characteristics

Median particle size : Not applicable.

: 0

Percentage of particles with aerodynamic diameter ≤ 10

acrodynamic diameter = 10

μm

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

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.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains CMIT/MIT(3:1), 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Intraperitoneal	Mouse	850 mg/kg	-
	LD50 Oral	Guinea pig	2 g/kg	-
	LD50 Oral	Guinea pig	2000 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Mouse	6050 mg/kg	-
	LD50 Oral	Mouse	4500 mg/kg	-
	LD50 Oral	Mouse	4500 mg/kg	-
	LD50 Oral	Rabbit	2200 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Oral	Rat	6050 mg/kg	-
	LD50 Oral	Rat	6050 mg/kg	-
	LD50 Route of exposure	Mouse	6050 mg/kg	-
	unreported			
	LD50 Route of exposure	Rat	4500 mg/kg	-
	unreported			
bronopol (INN)	LC50 Inhalation Dusts and	Rat	800 mg/m ³	4 hours
	mists	N4	4750//	
	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 LD50 Intravenous	Mouse Rat	48 mg/kg	-
	LD50 Intraverious		37400 µg/kg	-
	LD50 Oral	Mouse Mouse	270 mg/kg	-
	LD50 Oral	Rabbit	194 mg/kg	-
			190 mg/kg	-
	LD50 Oral LD50 Oral	Rat Rat	180 mg/kg	-
	LD50 Oral	Rat	267 mg/kg	-
	LD50 Oral	Rat	254 mg/kg	-
	LD50 Oral LD50 Subcutaneous		342 mg/kg	-
	LD30 Subculaneous	Mouse	116 mg/kg	-
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SECTION 11: Toxicological information

	LD50 Subcutaneous	Rat	170 mg/kg	-
	LD50 Subcutaneous	Rat	200 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)
bronopol (INN)	500	1100	N/A	N/A	N/A
CMIT/MIT(3:1)	100	50	N/A	N/A	0.05
3(2H)-Isothiazolone, 2-methyl-	100	300	N/A	N/A	0.05

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Eyes - Severe irritant	Rabbit	-	20 mg	-
bronopol (INN)	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	80 mg	-

Conclusion/Summary

: Not available.

Sensitization

Conclusion/Summary: Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Eye contact
 Inhalation
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

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SECTION 11: Toxicological information

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

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

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
titanium dioxide	Acute LC50 >1000 mg/l Fresh water	Fish - Pimephales promelas	96 hours
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
,	Acute LC50 2000000 µg/l Marine water	Fish - Menidia beryllina	96 hours
bronopol (INN)	Acute EC50 0.02 ppm Fresh water	Algae - Desmodesmus subspicatus	96 hours
	Acute EC50 0.41 ppm Fresh water	Algae - Navicula pelliculosa	96 hours
	Acute EC50 0.22 ppm Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.18 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 1.6 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 36 ppm Fresh water Acute LC50 11.17 ppm Fresh water	Fish - Lepomis macrochirus Fish - Lepomis macrochirus	96 hours 96 hours

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SECTION 12: Ecological information

	9.00		
	Acute LC50 41.5 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 20 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 26.4 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1.94 ppm	Fish - Oncorhynchus mykiss	49 days
	Chronic NOEC 1.94 ppm	Fish - Oncorhynchus mykiss	49 days
silver chloride	Acute EC50 0.00022 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 183 µg/l Marine water	Fish - Atherinops affinis	96 hours
	Acute LC50 259 µg/l Marine water	Fish - Atherinops affinis	96 hours
	Acute LC50 5.3 μg/l Fresh water	Fish - Lepidocephalichthys	96 hours
		guntea	
	Acute LC50 260 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 331 µg/l Marine water	Fish - Oligocottus maculosus	96 hours
	Chronic EC10 0.00016 mg/l	Algae - Nostuc moscorum	15 days
3(2H)-Isothiazolone, 2-methyl-	Acute EC50 0.18 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.3 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 0.19 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 0.07 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-(2-butoxyethoxy)ethanol	1	-	low
bronopol (INN)	0.18	-	low
silver chloride	-	70	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

coefficient (Noc)

: 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.

Mobility

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

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SECTION 13: Disposal considerations

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	-	-
14.5 Environmental hazards	No.	No.

user

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

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SECTION 14: Transport information

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 : Not applicable. on the manufacture, placing on the market and use of certain

dangerous substances, mixtures and articles

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.

: Not listed

Industrial emissions (integrated pollution

prevention and control) -

Air

Industrial emissions

: Not listed

(integrated pollution prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

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.

Biocidal products regulation

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

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SECTION 15: Regulatory information

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

: No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms 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

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful 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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361d	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.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

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SECTION 16: Other information

Acute Tox. 2
Acute Tox. 3
Acute Tox. 4

ACUTE TOXICITY - Category 2
ACUTE TOXICITY - Category 3
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

Asp. Tox. 1 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2

Eye Dam. 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam, Liq, 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Repr. 2 TOXIC TO REPRODUCTION - Category 2 Skin Corr. 1A SKIN CORROSION/IRRITATION - Category 1A 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. 1A SKIN SENSITIZATION - Category 1A

Skin Sens. 1B

SKIN SENSITIZATION - Category 1B

STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -

Category 3

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Unique ID : A6FD275CC10C1EEEAF867EF1DACBC0A2

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