

# Cascarez Ureka Global Ltd

Version No: 3.6

Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Chemwatch Hazard Alert Code: 2

Issue Date: **08/03/2023** Print Date: **25/05/2023** S.REACH.GB.EN

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

### 1.1. Product Identifier

Product name	Cascarez
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	UFI:12FH-U08M-500D-9EUD

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

Chemical Product Category	PC1 Adhesives, sealants		
Sectors of Use	SU3 Industrial uses: Uses of substances as such or in preparations* at industrial sites		
Relevant identified uses	Use according to manufacturer's directions.		
Uses advised against	No specific uses advised against are identified.		

# 1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Ureka Global Ltd			
Address	Decoypool Road, St Modwen Park, Newport, NP19 4RG United Kingdom			
Telephone	0)117 971 1364			
Fax	Not Available			
Website	www.thenamethatsticks.com			
Email	sales@thenamethatsticks.com			

# 1.4. Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

# **SECTION 2 Hazards identification**

# 2.1. Classification of the substance or mixture

Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 [1]	H319 - Serious Eve Damage/Eve Irritation Category 2	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	

# 2.2. Label elements

Hazard pictogram(s)



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Signal word Warning

### Hazard statement(s)

H319 Causes serious eye irritation.

# **Supplementary Phrases**

EUH208 Contains formaldehyde, 1,2-benzisothiazoline-3-one, 5-chloro-2-methyl-4-isothiazolin-3-one. May produce an allergic reaction.

# Precautionary statement(s) Prevention

P280	Wear protective gloves, protective clothing, eye protection and face protection.		
P264	Wash all exposed external body areas thoroughly after handling.		

# Precautionary statement(s) Response

Frecautionary statement(s) response			
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P337+P313	If eye irritation persists: Get medical advice/attention.		

# Precautionary statement(s) Storage

Not Applicable

# Precautionary statement(s) Disposal

Not Applicable

# 2.3. Other hazards

Cumulative effects may result following exposure\*.

formaldehyde Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)

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

### 3.1.Substances

See 'Composition on ingredients' in Section 3.2

# 3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics	
1. 52-51-7 2.200-143-0 3.603-085-00-8 4.Not Available	<0.04	2-bromo-2-nitropropan- 1.3-diol	Acute Toxicity (Oral) Category 4, Acute Toxicity (Dermal) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Hazardous to the Aquatic Environment Acute Hazard Category 1; H302, H312, H315, H318, H335, H400 [2]	M=10	Not Available	
1. 50-00-0 2.200-001-8 3.605-001-00-5 4.Not Available	<0.03	formaldehyde	Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 3, Acute Toxicity (Inhalation) Category 3, Skin Corrosion/Irritation Category 1B, Sensitisation (Skin) Category 1, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 1B; H301, H311, H331, H314, H317, H341, H350 [2]		Not Available	
1. 2634-33-5 2.220-120-9 3.613-088-00-6 4.Not Available	<0.02	1.2-benzisothiazoline-3-one	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Sensitisation (Skin) Category 1, Hazardous to the Aquatic Environment Acute Hazard Category 1; H302, H315, H318, H317, H400 [2]	Skin Sens. 1; H317: C ≥ 0,05 %	Not Available	
1. 55965-84-9 2.247-500-7 3.613-167-00-5 4.Not Available	<0.0015	5-chloro-2-methyl- 4-isothiazolin-3-one	Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 2, Acute Toxicity (Inhalation) Category 2, Skin Corrosion/Irritation Category 1C, Serious Eye Damage/Eye Irritation Category 1, Sensitisation (Skin) Category 1A, Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H301, H310, H330, H314, H318, H317, H400, H410 [2]	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=100   M=100	Not Available	
1. 124-17-4 2.204-685-9 3.Not Available 4.Not Available	1-5	diethylene glycol monobutyl ether acetate	EUH019 <sup>[1]</sup>	Not Available	Not Available	

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1. CAS No 2.EC No 3.Index No 4.REACH No		%[weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics
1. 1327-41-9 2.215-477-2 3.Not Available 4.Not Available		1-5	aluminium hydroxide chloride	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H315, H319, H410, EUH201 [1]	Not Available	Not Available
Legend: 1. Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567; 3. Classification drawn from C&L * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties					Classification drawn	

# **SECTION 4 First aid measures**

# 4.1. Description of first aid measures

Eye Contact	If this product comes in contact with the eyes:  Wash out immediately with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Seek medical attention without delay; if pain persists or recurs seek medical attention.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.		
Skin Contact  If skin contact occurs:  If skin			
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>		
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>		

# 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

### 5.1. Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

# 5.2. Special hazards arising from the substrate or mixture

# 5.3. Advice for firefighters

# **SECTION 6 Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

### 6.2. Environmental precautions

See section 12

# 6.3. Methods and material for containment and cleaning up

# 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

# 7.1. Precautions for safe handling

Safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- ▶ DO NOT allow clothing wet with material to stay in contact with skin

# 7.2. Conditions for safe storage, including any incompatibilities

Suitable container

▶ Polyethylene or polypropylene container.

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 Packing as recommended by manufacturer.
 Check all containers are clearly labelled and free from leaks. Hazard categories in accordance with Regulation Not Available (EC) No 1272/2008 Qualifying quantity (tonnes) of dangerous substances as Not Available referred to in Article 3(10) for the application of

# 7.3. Specific end use(s)

See section 1.2

# SECTION 8 Exposure controls / personal protection

# 8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
2-bromo-2-nitropropan-1,3-diol	Dermal 2 mg/kg bw/day (Systemic, Chronic) Inhalation 3.5 mg/m³ (Systemic, Chronic) Dermal 8 µg/cm² (Local, Chronic) Inhalation 2.5 mg/m³ (Local, Chronic) Dermal 6 mg/kg bw/day (Systemic, Acute) Inhalation 10.5 mg/m³ (Systemic, Acute) Dermal 8 µg/cm² (Local, Acute) Inhalation 2.5 mg/m³ (Local, Acute) Dermal 0.7 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.6 mg/m³ (Systemic, Chronic) * Oral 0.18 mg/kg bw/day (Systemic, Chronic) * Dermal 4 µg/cm² (Local, Chronic) * Dermal 2.1 mg/kg bw/day (Systemic, Acute) * Inhalation 1.8 mg/m³ (Systemic, Acute) * Oral 0.5 mg/kg bw/day (Systemic, Acute) * Dermal 4 µg/cm² (Local, Acute) * Inhalation 1.6 mg/m³ (Local, Acute) * Inhalation 0.6 mg/m³ (Local, Acute) *	0.01 mg/L (Water (Fresh)) 0.001 mg/L (Water - Intermittent release) 0.003 mg/L (Water (Marine)) 0.041 mg/kg sediment dw (Sediment (Fresh Water)) 0.003 mg/kg sediment dw (Sediment (Marine)) 0.5 mg/kg soil dw (Soil) 0.43 mg/L (STP)
formaldehyde	Dermal 240 mg/kg bw/day (Systemic, Chronic) Inhalation 9 mg/m³ (Systemic, Chronic) Dermal 37 μg/cm² (Local, Chronic) Inhalation 0.375 mg/m³ (Local, Chronic) Inhalation 0.75 mg/m³ (Local, Acute) Dermal 102 mg/kg bw/day (Systemic, Chronic) * Inhalation 3.2 mg/m³ (Systemic, Chronic) * Oral 4.1 mg/kg bw/day (Systemic, Chronic) * Dermal 12 μg/cm² (Local, Chronic) * Inhalation 0.1 mg/m³ (Local, Chronic) *	0.44 mg/L (Water (Fresh)) 0.44 mg/L (Water - Intermittent release) 4.44 mg/L (Water (Marine)) 2.3 mg/kg sediment dw (Sediment (Fresh Water)) 2.3 mg/kg sediment dw (Sediment (Marine)) 0.2 mg/kg soil dw (Soil) 0.19 mg/L (STP)
1,2-benzisothiazoline-3-one	Dermal 0.966 mg/kg bw/day (Systemic, Chronic) Inhalation 6.81 mg/m³ (Systemic, Chronic) Dermal 0.345 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.2 mg/m³ (Systemic, Chronic) *	4.03 μg/L (Water (Fresh)) 0.403 μg/L (Water - Intermittent release) 1.1 μg/L (Water (Marine)) 49.9 μg/kg sediment dw (Sediment (Fresh Water)) 4.99 μg/kg sediment dw (Sediment (Marine)) 3 mg/kg soil dw (Soil) 1.03 mg/L (STP)
5-chloro-2-methyl- 4-isothiazolin-3-one	Inhalation 0.02 mg/m³ (Local, Chronic) Inhalation 0.04 mg/m³ (Local, Acute) Oral 0.09 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.02 mg/m³ (Local, Chronic) * Oral 0.11 mg/kg bw/day (Systemic, Acute) * Inhalation 0.04 mg/m³ (Local, Acute) *	3.39 µg/L (Water (Fresh)) 3.39 µg/L (Water - Intermittent release) 3.39 µg/L (Water (Marine)) 0.027 mg/kg sediment dw (Sediment (Fresh Water)) 0.027 mg/kg sediment dw (Sediment (Marine)) 0.01 mg/kg soil dw (Soil) 0.23 mg/L (STP)
diethylene glycol monobutyl ether acetate	Dermal 100 mg/kg bw/day (Systemic, Chronic)  Dermal 60 mg/kg bw/day (Systemic, Chronic) *  Oral 7.9 mg/kg bw/day (Systemic, Chronic) *	0.108 mg/L (Water (Fresh)) 0.011 mg/L (Water - Intermittent release) 0.6 mg/L (Water (Marine)) 0.8 mg/kg sediment dw (Sediment (Fresh Water)) 0.08 mg/kg sediment dw (Sediment (Marine)) 0.29 mg/kg soil dw (Soil) 100 mg/L (STP) 70 mg/kg food (Oral)
aluminium hydroxide chloride	Dermal 1.94 mg/kg bw/day (Systemic, Chronic) Inhalation 6.8 mg/m³ (Systemic, Chronic) Dermal 0.97 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.7 mg/m³ (Systemic, Chronic) * Oral 1.2 mg/kg bw/day (Systemic, Chronic) *	Not Available

<sup>\*</sup> Values for General Population

# Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
UK Workplace Exposure Limits	formaldehyde	Formaldehyde	2 ppm / 2.5 mg/m3	2.5 mg/m3 / 2 ppm	Not Available	Carc

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
(WELs).						
UK Workplace Exposure Limits	aluminium hydroxide chloride	Aluminium salts, soluble	2 mg/m3	Not Available	Not Available	Not Available

### **Emergency Limits**

Ingredient	TEEL-1	TEEL-2	TEEL-3
formaldehyde	Not Available	Not Available	Not Available
5-chloro-2-methyl- 4-isothiazolin-3-one	0.6 mg/m3	6.6 mg/m3	40 mg/m3

Ingredient	Original IDLH	Revised IDLH
2-bromo-2-nitropropan-1,3-diol	Not Available	Not Available
formaldehyde	20 ppm	Not Available
1,2-benzisothiazoline-3-one	Not Available	Not Available
5-chloro-2-methyl- 4-isothiazolin-3-one	Not Available	Not Available
diethylene glycol monobutyl ether acetate	Not Available	Not Available
aluminium hydroxide chloride	Not Available	Not Available

### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
2-bromo-2-nitropropan-1,3-diol	E	≤ 0.01 mg/m³	
1,2-benzisothiazoline-3-one	E	≤ 0.01 mg/m³	
5-chloro-2-methyl- 4-isothiazolin-3-one	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a		

### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk

8.2.2. Individual protection measures, such as personal protective equipment







range of exposure concentrations that are expected to protect worker health.



# Eye and face protection

- Safety glasses with side shields.
- Chemical goggles
- ► Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

# Skin protection

### See Hand protection below

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

### Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

► Butyl rubber gloves

See Other protection below

· Nitrile rubber gloves (Note: Nitric acid penetrates nitrile gloves in a few minutes.)

# **Body protection**

Other protection

- Overalls
- P.V.C apron. Barrier cream.

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

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Material	СРІ
BUTYL	A
NEOPRENE	A
NEOPRENE/NATURAL	A
NITRILE	A
PE	A
PE/EVAL/PE	A

Type BAX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	BAX-AUS	-	BAX-PAPR-AUS / Class 1
up to 50 x ES	-	BAX-AUS / Class 1	-
up to 100 x ES	-	BAX-2	BAX-PAPR-2 ^

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PVC	Α
TEFLON	Α
VITON	Α
NATURAL RUBBER	В
NATURAL+NEOPRENE	В

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner

#### ^ - Full-face

 $A(AII\ classes) = Organic\ vapours,\ B\ AUS\ or\ B1 = Acid\ gasses,\ B2 = Acid\ gas\ or$  $hydrogen\ cyanide(HCN),\ B3 = Acid\ gas\ or\ hydrogen\ cyanide(HCN),\ E = Sulfur$ dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

### 8.2.3. Environmental exposure controls

See section 12

# **SECTION 9 Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

3.1. Illiorillation on basic physi	icai and chemicai properties		
Appearance	White		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Characteristic	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	3-4	Decomposition temperature (°C)	Not Available
Freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	ca 100	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

### 9.2. Other information

Not Available

# **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.1.Reactivity	See Section 7.2
10.2. Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

# **SECTION 11 Toxicological information**

### 11.1. Information on toxicological effects

Inhaled

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. The material has NOT been classified by EC Directives or other classification systems as "harmful by inhalation". This is because of the lack of corroborating animal or human evidence.

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Zirconium workers exposed to fume for 1-5 years showed no abnormalities due to zirconium. Animal studies also reveal a low order of hazard from inhaled zirconium.

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Ingestion	51alum Because inorganic zirconium is poorly absorbed from the digestive tract, acute oral toxicity is low. Injection is much more dangerous, causing progressive depression until death.  The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.  Taken by mouth, isothiazolinones have moderate to high toxicity. The major signs of toxicity are severe stomach irritation, lethargy, and inco-ordination.			
Skin Contact	his material can cause inflammation of the skin on contact in some persons. he material may accentuate any pre-existing dermatitis condition ikin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage bllowing entry through wounds, lesions or abrasions. 0.5% solution of 1,2-benzisothiazoline-3-one (BIT) is irritating to the skin. Even 0.05% can cause allergy, according to patch tests, with eddening of the skin. Provocation tests with BIT showed the material to be sensitizing. Folutions of isothiazolinones may be irritating or even damaging to the skin, depending on concentration. A concentration of over 0.1% can ritate, and over 0.5% can cause severe irritation. he external application of zirconium can cause nodules in the skin of the armpits. Open cuts, abraded or irritated skin should not be exposed to this material intry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin rior to the use of the material and ensure that any external damage is suitably protected.			
Еуе	This material can cause eye irritation and damage in some persor Solutions containing isothiazolinones may damage the mucous in 0.1%) did not cause irritation, while higher levels (3-5.5%) produc	nembranes and cornea. Animal testing showed very low concentrations (under		
Chronic	Substance accumulation, in the human body, may occur and may 55alum Zirconium can accumulate in the spleen. Oral administral In animal testing, 1,2-benzisothiazoline-3-one (BIT) did not cause or an increase in cancer. Mild anaemia, reduction in food intake a	toxicity to the embryo or birth defects. The material does not cause mutations		
Cascarez	Not Available	IRRITATION  Not Available		
Chronic	TOXICITY	IRRITATION		
	dermal (rat) LD50: ~1600 mg/kg <sup>[1]</sup>	Eye (rabbit): 5 mg		
	Inhalation(Rat) LC50: >0.12<1.14 mg/l4h <sup>[1]</sup>	Skin (human): 10 mg moderate		
	Oral (Rat) LD50: 180 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg/24h mild		
		Skin (rabbit): 80 mg moderate		
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: 270 mg/kg <sup>[2]</sup>	Eye (human): 4 ppm/5m		
	Inhalation(Rat) LC50: <463 ppm4h <sup>[1]</sup>	Eye (rabbit): 0.75 mg/24H SEVERE		
formaldehyde	Oral (Rat) LD50: 100 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>		
,	Transition (National Control of the	Skin (human): 0.15 mg/3d-l mild		
		Skin (rabbit): 2 mg/24H SEVERE		
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>		
		<u>'</u>		
	TOXICITY	IRRITATION		
1,2-benzisothiazoline-3-one	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>		
	Oral (Rat) LD50: 454 mg/kg <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
	TOXICITY	IRRITATION		
5-chloro-2-methyl-	dermal (rat) LD50: >1008 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irreversible damage) <sup>[1]</sup>		
4-isothiazolin-3-one	Inhalation(Rat) LC50: 1.23 mg/l4h <sup>[2]</sup>	Skin: adverse effect observed (corrosive) <sup>[1]</sup>		
	Oral (Rat) LD50: 53 mg/kg <sup>[2]</sup>	Skin: adverse effect observed (irritating) <sup>[1]</sup>		
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: 14500 mg/kg <sup>[2]</sup>	Eye (rabbit): 500 mg - moderate		
diethylene glycol monobutyl ether acetate	Inhalation(Rat) LC50: 72.5 mg/L4h <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
other abotato	Oral (Rabbit) LD50; 2260 mg/kg <sup>[2]</sup>	Skin (rabbit): 500 mg (open)-mild		
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
	TOXICITY	IRRITATION		
aluminium hydroxide chloride	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>		
aluminum nyuroxide chioride	Inhalation(Rat) LC50: >5 mg/l4h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
	<del>-</del>			

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Oral (Rat) LD50: >300<2000 mg/kg<sup>[1]</sup>

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Oral (rat) LD50: 9187 mg/kg [Hoechst] Skin (human) 150 mg/3d-l Mild for RTEC No.: BD 0549500 for RTEC No.: BD 0550000 CAS RN: 12042-91-0 Substance [CAS RN 1327-41-9] has been investigated as a reproductive effector in rats.

Aluminium compounds are widely used in antiperspirants without harmful effects to the skin Some people, however, are unusually sensitive to topically applied aluminium compounds. Skin irritation was reported in subjects following the application of aluminium chloride hexahydrate in ethanol used for the treatment of axillary or palmar hyperhidrosis (excessive sweating) or the use of a crystal deodorant containing alum Aluminium in antiperspirants is thought to work by (a) precipitating inside the eccrine sweat ducts as insoluble aluminium hydroxide, and (b) altering sweating by either a direct constrictor effect on the eccrine duct lumen or via an anticholinergic action.

For cosmetic uses of aluminium, the majority would be applied in formulations where the aluminium would be insoluble, which means that very little of the applied aluminium might be bioaccessible for skin absorption. The notable exception being antiperspirants where the aluminium is soluble at low pH in the formulation, before being rendered insoluble as it is neutralised by the sweat on the skin s surface and within the sweat ducts.

There are limited human data on the dermal absorption of aluminium.

#### ALUMINIUM HYDROXIDE CHLORIDE

As cationic polymers possess unique physical structures and surface properties, various kinds of cationic polymers have been developed over the past few decades for a wide spectrum of nanomedical applications in the central nervous system (CNS). Although cationic polymers could be successfully used for gene transfer, drug delivery, and diagnostic imaging, after entering into the CNS, they may cause neurotoxicity and induce CNS damage, which seriously limits their applications. The neurotoxic effects of cationic polymers on CNS are mostly studied in mice, and have not been examined in detail.

While evaluating the neurotoxicity of cationic polymers, the surface charge, surface area, coating, size, shape, and the basic materials that cationic polymers are made up of are expected to show important roles, and should be carefully considered. For aluminium compounds:

Aluminium present in food and drinking water is poorly absorbed through the gastrointestinal tract. The bioavailability of aluminium is dependent on the form in which it is ingested and the presence of dietary constituents with which the metal cation can complex Ligands in food can have a marked effect on absorption of aluminium, as they can either enhance uptake by forming absorbable (usually water soluble) complexes (e.g., with carboxylic acids such as citric and lactic), or reduce it by forming insoluble compounds (e.g., with phosphate or dissolved silicate).

Considering the available human and animal data it is likely that the oral absorption of aluminium can vary 10-fold based on chemical form alone. Although bioavailability appears to generally parallel water solubility, insufficient data are available to directly extrapolate from solubility in water to bioavailability.

For oral intake from food, the European Food Safety Authority (EFSA) has derived a tolerable weekly intake (TWI) of 1 milligram (mg) of aluminium per kilogram of bodyweight.

#### Cascarez & 2-BROMO-2-NITROPROPAN-1,3-DIOL &

FORMALDEHYDE & 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant.

1,3-DIOL & 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE & DIETHYLENE GLYCOL MONOBUTYL ETHER ACETATE & ALUMINIUM

HYDROXIDE CHLORIDE

2-BROMO-2-NITROPROPAN-

The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	X

Legend:

🗶 – Data either not available or does not fill the criteria for classification

Data available to make classification

### 11.2 Information on other hazards

### 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

### 11.2.2. Other information

See Section 11.1

# **SECTION 12 Ecological information**

# 12.1. Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
Cascarez	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
2-bromo-2-nitropropan-	NOEC(ECx)	72h	Algae or other aquatic plants	0.01mg/l	2
1,3-diol	LC50	96h	Fish	10.274-14.454mg/L	4
	EC50	72h	Algae or other aquatic plants	0.05mg/l	2

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	EC50	96h	A	lgae or other aquatic plants	0.02-0	.025mg/L	4
	EC50	48h	С	rustacea	1.1-3.5	i2mg/L	4
	Endpoint	Test Duration (hr)		Species	Val	ue	Source
	NOEC(ECx)	312h		Crustacea	0.0	05mg/l	4
	LC50	96h		Fish	0.7	27-9.193mg/l	4
formaldehyde	EC50	72h		Algae or other aquatic plants	1.0	34-1.984mg/l	4
	EC50	96h		Algae or other aquatic plants	0.3	75-0.579mg/l	4
	EC50	48h		Crustacea	3.2	6mg/l	4
	Endpoint	Test Duration (hr)		Species	Va	lue	Source
	NOEC(ECx)	72h		Algae or other aquatic plants	0.0	403mg/l	2
1,2-benzisothiazoline-3-one	EC50	72h		Algae or other aquatic plants	0.0	7mg/l	2
	LC50	96h		Fish	0.0	67-0.29mg/L	4
	EC50	48h		Crustacea	0.0	97mg/L	4
	Endpoint	Test Duration (hr)		Species	Valu	ie	Source
	NOEC(ECx)	504h		Crustacea	0.17	'2mg/l	1
5-chloro-2-methyl-	EC50	96h		Algae or other aquatic plants	0.03	0.03-0.13mg/L	
4-isothiazolin-3-one	EC50	72h		Algae or other aquatic plants	0.018-0.026mg/L		4
	LC50	96h		Fish	0.13	i-0.31mg/L	4
	EC50	48h		Crustacea 4.71mg/l		mg/l	1
	Endpoint	Test Duration (hr)		Species		Value	Source
	LC50	96h		Fish		50mg/l	1
diethylene glycol monobutyl	EC50	72h		Algae or other aquatic plants		>500mg/l	2
ether acetate	EC10(ECx)	168h		Crustacea		10.84mg/l	2
	EC50	96h		Algae or other aquatic plants		75mg/l	2
	Endpoint	Test Duration (hr)		Species	Va	ilue	Source
aluminium hydroxide chloride	LC50	96h		Fish	3.	1mg/l	Not Available
	EC50	72h		Algae or other aquatic plants	0.	0169mg/l	2
	EC50	48h		Crustacea	0.	33mg/l	2
	EC10(ECx)	72h		Algae or other aquatic plants	0.	000203mg/l	2
	EC50	96h		Algae or other aquatic plants	0.	0054mg/l	2
Legend:	Ecotox database			d Substances - Ecotoxicological Infon ord Assessment Data 6. NITE (Japan)			

Atmospheric Fate - Metal-containing inorganic substances generally have negligible vapour pressure and are not expected to partition to air.

Environmental Fate: Environmental processes, such as oxidation, the presence of acids or bases and microbiological processes, may transform insoluble metals to more soluble ionic forms. Environmental processes may enhance bioavailability and may also be important in changing solubilities.

Speciation of arsenic is an important consideration in the fate, movement, and action of this substance. Chemical and biochemical transformations of arsenic include oxidation, reduction and methylation which affects its volatilisation, adsorption, dissolution and biological disposition. The transport of arsenic in the environment is largely controlled by absorption/desorption processes in soils and sediments.

Soluble salts of zirconium are moderately toxic to algae and fish. Zirconium is more toxic in soft water than in hard water. The toxicity of zirconium salts and zirconium complexes with organic acids are expected to be related to their water solubilities and their octanol/ water partition coefficient (Kow).

Environmental Fate: Isothiazolinones are antimicrobials used to control bacteria, fungi, and for wood preservation and antifouling agents. They are frequently used in personal care products such as shampoos and other hair care products, as well as certain paint formulations. The most common isothiazolinone combinations are 5-chloro-2-methyl-4-isothiazolin-3-one, (CMI), and 2-methyl-4-isothiazolin-3-one, (MI).

For Formaldehyde:

Environmental Fate: Formaldehyde is common in the environment as a contaminant of smoke and as photochemical smog. Concentrated solutions containing formaldehyde are unstable and oxidize slowly. In the presence of air and moisture, polymerization takes place readily in concentrated solutions at room temperature to form paraformaldehyde. For 2-bromo-2-nitropropan-1,3-diol (Bronopol)

### **Environmental fate:**

One hydrolysis study indicates that bronopol appears to hydrolyse slowly at acidic or neutral pH conditions. Bronopol decomposes in aqueous solution on exposure to light. Increases in temperature increase decomposition.

DO NOT discharge into sewer or waterways.

# 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air		
2-bromo-2-nitropropan-1,3-diol	LOW	LOW		
formaldehyde	LOW (Half-life = 14 days)	LOW (Half-life = 2.97 days)		
5-chloro-2-methyl- 4-isothiazolin-3-one	HIGH	HIGH		
diethylene glycol monobutyl ether acetate	LOW	LOW		

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### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
2-bromo-2-nitropropan-1,3-diol	LOW (LogKOW = -0.6408)
formaldehyde	LOW (LogKOW = 0.35)
5-chloro-2-methyl- 4-isothiazolin-3-one	LOW (LogKOW = 0.0444)
diethylene glycol monobutyl ether acetate	LOW (LogKOW = 1.2976)

# 12.4. Mobility in soil

Ingredient	Mobility
2-bromo-2-nitropropan-1,3-diol	HIGH (KOC = 1)
formaldehyde	HIGH (KOC = 1)
5-chloro-2-methyl- 4-isothiazolin-3-one	LOW (KOC = 45.15)
diethylene glycol monobutyl ether acetate	LOW (KOC = 10)

### 12.5. Results of PBT and vPvB assessment

	Р	В	Т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
vPvB	×	×	×
PBT Criteria fulfilled?			
vPvB			No

### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

# 12.7. Other adverse effects

One or more ingredients within this SDS has the potential of causing ozone depletion and/or photochemical ozone creation.

# **SECTION 13 Disposal considerations**

### 13.1. Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Product / Packaging disposal
  Recycle wherever possible.
  - Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
  - Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).

Waste treatment options	Not Available
Sewage disposal options	Not Available

# **SECTION 14 Transport information**

# Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

# Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number or ID number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	Class Not Applicable Subsidiary risk Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		

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	Hazard identification (Kemler)	Not Applicable	
	Classification code	Not Applicable	
14.6. Special precautions for user	Hazard Label	Not Applicable	
	Special provisions	Not Applicable	
	Limited quantity	Not Applicable	
	Tunnel Restriction Code	Not Applicable	

# Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable					
14.2. UN proper shipping name	Not Applicable					
	ICAO/IATA Class	TA Class Not Applicable				
14.3. Transport hazard class(es)	ICAO / IATA Subrisk	isk Not Applicable				
Class(es)	ERG Code	ERG Code Not Applicable				
14.4. Packing group	Not Applicable					
14.5. Environmental hazard	Not Applicable					
	Special provisions		Not Applicable			
	Cargo Only Packing Instructions		Not Applicable			
	Cargo Only Maximum Qty / Pack		Not Applicable			
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable			
user	Passenger and Cargo	Maximum Qty / Pack	Not Applicable			
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable			
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable			

# Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	IMDG Class     Not Applicable       IMDG Subrisk     Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number Not Applicable Special provisions Not Applicable Limited Quantities Not Applicable		

# Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard class(es)	Not Applicable Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
		Not Applicable  Not Applicable		
14.6. Special precautions for user	Limited quantity	Not Applicable		
	Equipment required N	Not Applicable		
	Fire cones number	Not Applicable		

# 14.7. Maritime transport in bulk according to IMO instruments

# 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
2-bromo-2-nitropropan-1,3-diol	Not Available

Product name	Group
formaldehyde	Not Available
1,2-benzisothiazoline-3-one	Not Available
5-chloro-2-methyl- 4-isothiazolin-3-one	Not Available
diethylene glycol monobutyl ether acetate	Not Available
aluminium hydroxide chloride	Not Available

### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
2-bromo-2-nitropropan-1,3-diol	Not Available
formaldehyde	Not Available
1,2-benzisothiazoline-3-one	Not Available
5-chloro-2-methyl- 4-isothiazolin-3-one	Not Available
diethylene glycol monobutyl ether acetate	Not Available
aluminium hydroxide chloride	Not Available

# **SECTION 15 Regulatory information**

Great Britain GB Biocidal Active Substances

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

Great Britain GB Biocidal Active Substances  Great Britain GB mandatory classification and labelling list (GB MCL)	nitropropan-1,3-diol is found on the following regulatory lists	
- · · · · · · · · · · · · · · · · · · ·	GB Biocidal Active Substances Great Britain GB mandatory classification	and labelling list (GB MCL)
formaldehyde is found on the following regulatory lists	de is found on the following regulatory lists	
Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	otprint Project - Chemicals of High Concern List International Agency for Research on Can	icer (IARC) - Agents Classified by the IARC
Great Britain GB Biocidal Active Substances  Monographs	GB Biocidal Active Substances Monographs	
Great Britain GB mandatory classification and labelling list (GB MCL)  International Agency for Research on Cancer (IARC) - Agents Classified by the IARC  Monographs - Group 1: Carcinogenic to humans	ob managery elaboritaria laboriting not (ob mob)	` , ,
UK Workplace Exposure Limits (WELs).	UK Workplace Exposure Limits (WELs).	
1,2-benzisothiazoline-3-one is found on the following regulatory lists	thiazoline-3-one is found on the following regulatory lists	
Great Britain GB Biocidal Active Substances  Great Britain GB mandatory classification and labelling list (GB MCL)	GB Biocidal Active Substances Great Britain GB mandatory classification	and labelling list (GB MCL)

Great Britain GB mandatory classification and labelling list (GB MCL)

diethylene glycol monobutyl ether acetate is found on the following regulatory lists

5-chloro-2-methyl-4-isothiazolin-3-one is found on the following regulatory lists

Not Applicable

aluminium hydroxide chloride is found on the following regulatory lists

Great Britain GB Biocidal Active Substances UK Workplace Exposure Limits (WELs).

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, -2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

### Information according to 2012/18/EU (Seveso III):

**Seveso Category** Not Available

# 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

# **ECHA SUMMARY**

Ingredient	CAS number	Index No	ECHA Dossier
2-bromo-2-nitropropan-1,3-diol	52-51-7	603-085-00-8	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Acute Tox. 4; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Acute 1	GHS05; GHS09; Dgr	H302; H312; H315; H318; H335; H400
2	Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Acute 1; Acute Tox. 3; Flam. Sol. 2; Self-react. C; Acute Tox. 2; Acute Tox. 2; Aquatic Chronic 1	GHS05; GHS09; Dgr; GHS06; GHS02	H315; H318; H335; H400; H301; H410; H228; H242; H310; H330

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No	ECHA Dossier
formaldehyde	50-00-0	605-001-00-5	Not Available

Inventory)	Hazard Class and Category Code(s)	Word Code(s)	Hazard Statement Code(s)	

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Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Acute Tox. 3; Acute Tox. 3; Skin Corr. 1B; Skin Sens. 1; Eye Dam. 1; Acute Tox. 3; Carc. 2	GHS08; GHS05; GHS06; Dgr	H301; H311; H314; H317; H331; H351
2	Skin Sens. 1A; Acute Tox. 2; Acute Tox. 3; Skin Corr. 1A; Eye Dam. 1; Muta. 2; Carc. 1A; STOT SE 3; Flam. Liq. 3; Flam. Gas 1; Liq.; Resp. Sens. 1; STOT SE 1; STOT RE 1; Met. Corr. 1; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1	GHS06; Dgr; GHS08; GHS05; GHS09; GHS01	H317; H330; H301; H314; H341; H350; H318; H335; H226; H220; H280; H334; H370; H372; H336; H290; H400; H310; H410

 $Harmonisation \ Code \ 1 = The \ most \ prevalent \ classification. \ Harmonisation \ Code \ 2 = The \ most \ severe \ classification.$ 

Ingredient	CAS number	Index No	ECHA Dossier
1,2-benzisothiazoline-3-one	2634-33-5	613-088-00-6	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1; Eye Dam. 1; Aquatic Acute 1	GHS05; GHS09; Dgr	H302; H315; H317; H318; H400
2	Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1A; Eye Dam. 1; Aquatic Acute 1; Acute Tox. 1; Aquatic Chronic 1	GHS09; GHS05; Dgr; GHS06; GHS08	H302; H315; H317; H318; H400; H330; H410

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No	ECHA Dossier
5-chloro-2-methyl- 4-isothiazolin-3-one	55965-84-9	613-167-00-5	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Acute Tox. 2; Acute Tox. 2; Skin Corr. 1B; Skin Sens. 1; Eye Dam. 1; Acute Tox. 2; Aquatic Acute 1	GHS08; GHS09; GHS06; Dgr	H300; H310; H314; H317; H318; H330; H400
2	Acute Tox. 1; Acute Tox. 1; Skin Corr. 1B; Skin Sens. 1A; Eye Dam. 1; Acute Tox. 1; Aquatic Acute 1; other:nose; Aquatic Chronic 1; Flam. Liq. 3; STOT SE 1; Resp. Sens. 1	GHS08; GHS09; GHS06; Dgr; GHS05; GHS02	H300; H310; H314; H317; H318; H330; H400; H335; H410; H226; H334; H370
1	Acute Tox. 3; Acute Tox. 3; Skin Corr. 1B; Skin Sens. 1; Acute Tox. 3; Aquatic Acute 1; Aquatic Chronic 1	GHS05; GHS09; GHS06; Dgr	H301; H311; H314; H317; H331; H410
2	Acute Tox. 3; Skin Corr. 1A; Skin Sens. 1A; Aquatic Acute 1; Aquatic Chronic 1; Eye Dam. 1; Acute Tox. 2; Acute Tox. 1; STOT SE 3; Met. Corr. 1	GHS05; GHS09; GHS06; Dgr; GHS08	H301; H314; H317; H410; H318; H400; H310; H330; H335; H290; H334

 $Harmonisation \ \ Code\ 1 = The\ most\ prevalent\ classification.\ Harmonisation\ \ Code\ 2 = The\ most\ severe\ classification.$ 

Ingredient	CAS number	Index No	ECHA Dossier
diethylene glycol monobutyl ether acetate	124-17-4	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Not Classified	Not Available	Not Available
2	Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; STOT SE 3; Resp. Sens. 1; Aquatic Chronic 4	GHS07; Dgr	H315; H317; H319; H335; H334; H413

 $Harmonisation \ \ Code\ 1 = The\ most\ prevalent\ classification.\ Harmonisation\ \ Code\ 2 = The\ most\ severe\ classification.$ 

Ingredient	CAS number	Index No	ECHA Dossier
aluminium hydroxide chloride	1327-41-9	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Not Classified	Not Available	Not Available
2	Met. Corr. 1; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3	GHS05; Wng	H290; H315; H319; H335
1	Met. Corr. 1; Eye Dam. 1	GHS05; Dgr	H290; H318
2	Met. Corr. 1; Eye Dam. 1; Acute Tox. 4; Skin Corr. 1A; Aquatic Chronic 2	GHS05; Dgr; GHS09	H290; H318; H302; H314; H411

 $Harmonisation \ Code \ 1 = The \ most \ prevalent \ classification. \ Harmonisation \ Code \ 2 = The \ most \ severe \ classification.$ 

# **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (2-bromo-2-nitropropan-1,3-diol; formaldehyde; 1,2-benzisothiazoline-3-one; 5-chloro-2-methyl-4-isothiazolin-3-one; diethylene glycol monobutyl ether acetate; aluminium hydroxide chloride)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes

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National Inventory Status Korea - KECI New Zealand - NZIoC Yes Philippines - PICCS Yes USA - TSCA Yes Taiwan - TCSI Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - FBEPH Yes Yes = All CAS declared ingredients are on the inventory Legend: No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

### **SECTION 16 Other information**

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Initial Date	25/05/2022

### Full text Risk and Hazard codes

Full text Risk and Hazard codes		
H220	Extremely flammable gas.	
H226	Flammable liquid and vapour.	
H228	Flammable solid.	
H242	Heating may cause a fire.	
H280	Contains gas under pressure; may explode if heated.	
H290	May be corrosive to metals.	
H300	Fatal if swallowed.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
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.	
H330	Fatal if inhaled.	
H331	Toxic if inhaled.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H341	Suspected of causing genetic defects.	
H350	May cause cancer.	
H351	Suspected of causing cancer.	
H370	Causes damage to organs.	
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.	
H411	Toxic to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	
	·	

# **SDS Version Summary**

Version	Date of Update	Sections Updated
2.6	08/03/2023	Hazards identification - Classification, Composition / information on ingredients - Ingredients

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

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EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit,

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors

AIIC: Australian Inventory of Industrial Chemicals

BEI: Biological Exposure Index DSL: Domestic Substances List

NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Serious Eye Damage/Eye Irritation Category 2, H319	On basis of test data
, EUH208	Calculation method

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