

# SAFETY DATA SHEET

Version: 1.1 Date: 19<sup>th</sup> April 2023



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830  
AS AMENDED BY UK REACH REGULATIONS SI 2019/758

**URIZAP**

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 Product identifier</b>		
Product name	URIZAP: Uric Acid Digestor Granules	
Product type	Mixture	
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>		
Identified Use(s)	Uric acid dissolver / Cleaning agent. For use in flushing and waterless urinals.	
Uses advised against	Anything other than the above. - Not for oral consumption or direct contact with food and beverages	
<b>1.3 Details of the supplier of the safety data sheet</b>		
Company Identification	Advanced Bacterial Sciences Third floor, Crown House 151 High Rd, Loughton, Essex IG10 4LG United Kingdom	
Telephone	+44 (0) 8443814708	
E-mail (competent person)	<a href="mailto:sales@abs.eco">sales@abs.eco</a>	
<b>1.4 Emergency telephone number</b>		
Emergency Phone No.	0844 381 4708	Only available during office hours. Monday to Friday 09.00 - 17.00, GMT
Languages spoken	English	

## SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>		
<b>2.1.1 The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain</b>	Oxidising solid 3; H272 Eye Irrit. 2; H319	
<b>2.2 Label elements</b>		
Product name	URIZAP: Uric Acid Digestor Granules	
Contains:	Not applicable	
Hazard Pictogram(s)	 	
Signal Word(s)	WARNING	
Hazard Statement(s)	H272: May intensify fire; oxidiser. H319: Causes serious eye irritation.	
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P264: Wash hands thoroughly after handling. P220: Keep/Store away from clothing/combustible materials. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P280: Wear protective gloves/protective clothing/eye protection/face protection. P337+P313: If eye irritation persists: Get medical advice/attention.	

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Supplemental information Not applicable

2.3 Other hazards None Known

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances  
Not applicable

3.2 Mixtures Substances in preparations / mixtures.  
According to Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%WW	CAS No.	EC No.	REACH Registration No.	Hazard classification
Sodium Carbonate Peroxyhydrate	20 -25	15630-89-4	239-707-6	Not yet assigned in the supply chain	Oxid. Solid 3; H272 Acute Tox. 4; H302 Eye Dam. 1; H318
Sodium Carbonate	>10	497-19-8	207-838-8	Not yet assigned in the supply chain	Eye Irrit. 2; H319
Citric Acid	>10 - <20	77-92-9	201-069-1	Not yet assigned in the supply chain	Eye Irrit. 2; H319 STOT SE 3; H335

For full text of H phrases see section 16.

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Self-protection of the first aider

Inhalation

Skin contact

Eye contact

Ingestion

No action should be taken involving personal risk. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust  
IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

IF ON SKIN: Gently wash with plenty of soap and water. If irritation develops and persists, get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.

IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention.

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

Causes serious eye irritation.

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

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

In case of fire: Water spray, foam, dry powder or CO<sub>2</sub>.

Do not use water jet. Direct water jet may spread the fire.

### 5.2 Special hazards arising from the substance or mixture

May intensify fire; oxidiser. Contact with combustible material may cause fire. May give off noxious and toxic fumes in a fire.

### 5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

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Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- |            |  |  |
|------------|--|--|
| <b>6.1</b> | <b>Personal precautions, protective equipment and emergency procedures</b> | No action should be taken involving personal risk. Provided it is safe to do so, isolate the source of the leak. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid breathing dust. Shut off all ignition sources. |
| <b>6.2</b> | <b>Environmental precautions</b>   | Not applicable   |
| <b>6.3</b> | <b>Methods and material for containment and cleaning up</b>                | Sweep up spilled substance. Sweep up carefully with non-sparking tools. Use vacuum equipment for collecting spilt materials, where practicable. Transfer to a container for disposal. Recover the product where possible. Wash the spillage area with water.                         |
| <b>6.4</b> | <b>Reference to other sections</b>   | See Also Section: 8, 13.   |

## SECTION 7: HANDLING AND STORAGE

- |            |   |   |
|------------|---|---|
| <b>7.1</b> | <b>Precautions for safe handling</b>                                | When using do not eat or drink. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation. Avoid breathing dust. Wash hands and exposed skin thoroughly after handling. Use non-sparking tools. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid contact with combustible material. |
| <b>7.2</b> | <b>Conditions for safe storage, including any incompatibilities</b> | Keep container closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.   |
|            | Storage temperature   | Stable at ambient temperatures. Recommended: <25 °C to prolong storage life.  |
|            | Incompatible materials  | Avoid contact with combustible material. Keep away from acid.   |
| <b>7.3</b> | <b>Specific end use(s)</b>  | See Section: 1.2.   |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |              |  |   |
|--------------|--|---|
| <b>8.1</b>   | <b>Control parameters</b>  |   |
| <b>8.1.1</b> | <b>Occupational exposure limits</b>  | The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m <sup>3</sup> (8hr TWA) total inhalable dust; 4 mg/m <sup>3</sup> (8hr TWA) total respirable dust.  |
| <b>8.1.2</b> | <b>Biological limit value</b>  | Not established.  |
| <b>8.1.3</b> | <b>PNECs and DNELs</b>   | Not applicable  |
| <b>8.2</b>   | <b>Exposure controls</b>   |   |
| <b>8.2.1</b> | <b>Appropriate engineering controls</b>                                      | Ensure adequate ventilation. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. A washing facility/water for eye and skin cleaning purposes should be present./ Eyewash bottles should be available. |
| <b>8.2.2</b> | <b>Individual protection measures, such as personal protective equipment</b> | Keep good industrial hygiene. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Do not eat, drink or smoke at the work place. Wash hands before breaks and after work.  |

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Use eye protection according to EN 166, designed to protect against dusts.

Skin protection

**Hand protection:**

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Wear protective gloves. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.  
Suitable material: PVC, Neoprene, Natural rubber

#### Body protection:

Wear work clothes with long sleeves.

Respiratory protection



An approved dust mask should be worn if dust is generated during handling. A suitable dust mask or dust respirator with filter type P (EN143 or EN405) may be appropriate.

Thermal hazards

Not applicable.

**8.2.3 Environmental exposure controls**

Not applicable.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Solid white Powder with blue flecks
Odour	Not established
Odour threshold	Not established
pH	Not established
Melting point/freezing point	Not applicable - solid
Initial boiling point and boiling range	Not applicable - solid
Flash point	Not applicable - solid
Evaporation rate	Not applicable - solid
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	Not established
Vapour pressure	Not applicable - solid
Vapour density	Not applicable - solid
Relative density	Not established
Solubility(ies)	Not established
Partition coefficient: n-octanol/water	Not established
Auto-ignition temperature	Not established
Decomposition temperature	Not established
Viscosity	Not applicable - solid
Explosive properties	Not explosive
Oxidising properties	May intensify fire; oxidiser.
Sodium Carbonate Peroxyhydrate	Oxid. Solid 3; H272 The substance/mixture does show an equal or smaller mean burning time in a 4:1 or 1:1 mass weight mixture with cellulose than in a 3:7 reference mixture with potassium bromate/cellulose.

**9.2 Other information**

None Known

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	Hazardous polymerisation will not occur.
<b>10.4 Conditions to avoid</b>	Avoid prolonged storage at elevated temperature.
<b>10.5 Incompatible materials</b>	Avoid contact with combustible material. Keep away from acid.
<b>10.6 Hazardous decomposition products</b>	May give off noxious and toxic fumes in a fire.

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## SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>		
<b>Acute Toxicity - Ingestion</b>		Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
<b>Acute Toxicity - Inhalation</b>		Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l (Dusts)
<b>Acute Toxicity - Skin contact</b>		Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
<b>Skin corrosion/irritation</b>		Mixture: Based upon the available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>		Mixture: Eye Irrit. 2; H319: Causes serious eye irritation. Eye Dam. 1; H318: Causes serious eye damage.
	Sodium Carbonate Peroxyhydrate	Adverse effects observed - Severe irritant, Conjunctival redness. Corneal opacity. (rabbit) (OECD405) Eye Irrit. 2; H319: Causes serious eye irritation.
	Sodium Carbonate	GB Mandatory Classification List Adverse effects observed - Conjunctival oedema (chemosis). Conjunctival redness. Corneal opacity. (rabbit) (EPA 16 CFR 1500.42) Eye Irrit. 2; H319: Causes serious eye irritation.
	Citric Acid	Adverse effects observed - Conjunctival redness. (rabbit) (OECD405)
<b>Respiratory or skin sensitisation</b>		Mixture: Based upon the available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>		Mixture: Based upon the available data, the classification criteria are not met.
<b>Carcinogenicity</b>		Mixture: Based upon the available data, the classification criteria are not met.
<b>Reproductive toxicity</b>		Mixture: Based upon the available data, the classification criteria are not met.
<b>STOT - single exposure</b>		Mixture: Based upon the available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>		Mixture: Based upon the available data, the classification criteria are not met.
<b>Aspiration hazard</b>		Mixture: Based upon the available data, the classification criteria are not met.
<b>11.2 Other information</b>		None.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>		Mixture: Based upon the available data, the classification criteria are not met. Estimated LC50 (Mixture): > 100 mg/l.
<b>12.2 Persistence and degradability</b>		No data for the mixture as a whole.
	Sodium Carbonate Peroxyhydrate	Not applicable for inorganic substances.
	Sodium Carbonate	Not applicable for inorganic substances.
	Citric Acid	Readily biodegradable.
<b>12.3 Bioaccumulative potential</b>		% Biodegradation (19 days): 100 (OECD301E)
	Sodium Carbonate Peroxyhydrate	No data for the mixture as a whole.
	Sodium Carbonate	Not applicable for inorganic substances.
	Citric Acid	The substance has low potential for bioaccumulation.
<b>12.4 Mobility in soil</b>		Low log Kow: <3
	Sodium Carbonate Peroxyhydrate	No data for the mixture as a whole.
	Sodium Carbonate	No data available
	Citric Acid	No data available
<b>12.5 Results of PBT and vPvB assessment</b>		Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
<b>12.6 Other adverse effects</b>		None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>		Disposal should be in accordance with local, state or national legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled. Uncleaned empties should be disposed of in the same manner as the contents. Recover or recycle if possible.
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## SECTION 14: TRANSPORT INFORMATION

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA/ICAO</b>
14.1 UN number	UN1479	UN1479	UN1479
14.2 UN proper shipping name	OXIDISING SOLID, N.O.S. (SODIUM CARBONATE PEROXYHYDRATE)	OXIDISING SOLID, N.O.S. (SODIUM CARBONATE PEROXYHYDRATE)	OXIDISING SOLID, N.O.S. (SODIUM CARBONATE PEROXYHYDRATE)
14.3 Transport hazard class(es)	5.1	5.1	5.1
14.4 Packing group	III	III	III
14.5 Environmental hazards	Not classified	Not classified	Not classified
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable		
14.8 Additional Information	None		

## SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1 EU regulations	
Authorisations and/or restrictions on use	Not restricted
GB Regulations	Not restricted
15.1.2 National regulations	
Wassergefährdungsklasse (Germany)	Water hazard class: 1 (Self classification)
15.2 Chemical Safety Assessment	A chemical safety assessment is not required under REACH.

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

Sections indicated with the following have been revised

### References:

Existing Safety Data Sheets (SDSs).

GB Mandatory Classification list for; Sodium Carbonate (CAS No. 497-19-8); Citric Acid (CAS No. 77-92-9)

Existing ECHA registration for Sodium Carbonate Peroxyhydrate (CAS No. 15630-89-4); Sodium Carbonate (CAS No. 497-19-8); Citric Acid (CAS No. 77-92-9)

Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

<b>Classification of the substance or mixture according to The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain</b>	<b>Classification Procedure</b>
Ox. Sol. 3, H272	Expert judgement and weight of evidence.
Eye Irrit. 2; H319	Threshold Calculation

### Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
DNEL	Derived No Effect Level
EC	European Community
ECHA	European Chemicals Agency
EU	European Union
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization

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IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration at which 50% of the population is killed
LD50	Lethal dose at which 50% of the population is killed
LTEL	Long Term Exposure Limit
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the international railway transport of dangerous goods
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
UN	United Nations
vPvB	very Persistent and very Bioaccumulative

#### Hazard classification / Classification code:

Ox. Sol. 3; Oxidising solid, Category 3  
Acute Tox. 4; Acute Toxicity, Category 4  
Eye Dam. 1; Eye damage, category 1  
Eye Irrit. 2; Eye Irritation, Category 2  
STOT SE 3; Specific Target Organ Toxicity — Single Exposure, Category 3

#### Hazard Statement(s)

H272: May intensify fire; oxidiser.  
H302: Harmful if swallowed.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

#### Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Advanced Bacterial Sciences gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Advanced Bacterial Sciences accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

#### Annex to the extended Safety Data Sheet (eSDS)

Exposure scenarios for substances in this preparation are not available.

# SAFETY DATA SHEET

## SURFACE DESCALER


ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830  
AS AMENDED BY UK REACH REGULATIONS SI 2019/758

Date of issue: 25/08/2023  
Version: 1.0

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 Product identifier</b>	
Product name	SURFACE DESCALER
Product code	WS3
Product type	Mixture
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified Use(s)	Removal and cleaning of organic and inorganic scales on washroom surfaces.
Uses advised against	Anything other than the above.
<b>1.3 Details of the supplier of the safety data sheet</b>	
Company Identification	Advanced Bacterial Sciences Unit 3, Northgate Business Park White Lund Industrial Estate Morecambe, Lancashire LA3 3BJ United Kingdom
Telephone	+44 (0) 1524 481513
E-mail (competent person)	info@abs.eco
<b>1.4 Emergency telephone number</b>	
Emergency Phone No.	01524 481513
Languages spoken	English
	Only available during office hours. Monday to Friday 09.00 - 17.00, GMT

### SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
<b>2.1.1 The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain</b>	Eye Irrit. 2; H319 STOT SE 3; H335
<b>2.2 Label elements</b>	
Product name	SURFACE DESCALER
Contains:	Citric Acid
Hazard Pictogram(s)	
Signal Word(s)	WARNING
Hazard Statement(s)	H319: Causes serious eye irritation. H335: May cause respiratory irritation.
Precautionary Statement(s)	P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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## SURFACE DESCALER

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P337+P313: If eye irritation persists: Get medical advice/attention.  
P261: Avoid breathing vapours.  
P312: Call a POISON CENTER if you feel unwell.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Supplemental information

EUH208: Contains Nerol. May produce an allergic reaction.

### 2.3 Other hazards

None Known

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures

Classification: The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

Chemical identity of the substance	%W/W	CAS No.	EC No.	UK-REACH Registration No.	Hazard classification
Citric Acid	40 - 45	77-92-9	201-069-1	Not yet assigned in the supply chain	Eye Irrit. 2; H319 STOT SE 3; H335
Nerol	0.1 – 0.5 ≤	106-25-2	203-378-7	Not yet assigned in the supply chain	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Dam 1; H318

For full text of H phrases see section 16.

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Self-protection of the first aider

No action should be taken involving personal risk. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Contaminated clothing should be laundered before reuse. Avoid breathing vapours. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Skin contact

IF ON SKIN: Gently wash with plenty of soap and water. Remove contaminated clothing and wash clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If irritation develops and persists, get medical attention.

Ingestion

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell. If possible show this SDS. Failing this, show the packaging or label.

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

Causes serious eye irritation. May cause respiratory irritation. May produce an allergic reaction.

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

Treat symptomatically.

# SAFETY DATA SHEET



## SURFACE DESCALER

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830 AS AMENDED BY UK REACH REGULATIONS SI 2019/758

Date of issue: 25/08/2023  
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### SECTION 5: FIREFIGHTING MEASURES

- |  |  |
|--|--|
| <b>5.1 Extinguishing media</b><br>Suitable extinguishing media<br>Unsuitable extinguishing media | In case of fire, use water spray, foam, dry powder or CO2 for extinction.<br>Do not use water jet. Direct water jet may spread the fire.   |
| <b>5.2 Special hazards arising from the substance or mixture</b>                                 | In case of fire may be liberated: Carbon monoxide, Carbon dioxide  |
| <b>5.3 Advice for firefighters</b>   | Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Do not allow to enter into surface water or drains. |

### SECTION 6: ACCIDENTAL RELEASE MEASURES

- |  |   |
|--|---|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | No action should be taken involving personal risk. Provided it is safe to do so, isolate the source of the leak. Wear appropriate personal protective equipment. Avoid breathing vapours. Avoid contact with skin and eyes. Ensure adequate ventilation. Remove contaminated clothing and wash all affected areas with plenty of water. When using do not eat or drink. |
| <b>6.2 Environmental precautions</b>   | Not applicable.   |
| <b>6.3 Methods and material for containment and cleaning up</b>                | Stop leak if safe to do so. Clean surface thoroughly to remove residual contamination. Use non-sparking tools. Adsorb spillages onto sand, earth or any suitable adsorbent material. Never return spills in original containers for re-use. Ventilate the area and wash spill site after material pick-up is complete.  |
| <b>6.4 Reference to other sections</b>   | See sections 8 and 13.  |

### SECTION 7: HANDLING AND STORAGE

- |   |   |
|---|---|
| <b>7.1 Precautions for safe handling</b>                                | Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Wear protective gloves and eye/face protection. Wash hands before breaks and after work. Ensure adequate ventilation. Avoid breathing vapours. Avoid contact with skin and eyes. Do not eat, drink or smoke at the work place. |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> | Keep only in original packaging. Keep container tightly closed and in a well-ventilated place. Protect from direct sunlight. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep/Store only in original container.               |
| storage temperature<br>Incompatible materials                           | Ambient temperatures.<br>Keep away from oxidising agents and strong bases.  |
| <b>7.3 Specific end use(s)</b>  | See section: 1.2  |

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |   |  |
|---|--|
| <b>8.1 Control parameters</b>                 |  |
| <b>8.1.1 Occupational exposure limits</b>     | None assigned  |
| <b>8.1.2 Biological limit value</b>           | None assigned  |
| <b>8.1.3 PNECs and DNELs</b>                  | None assigned  |
| <b>8.2 Exposure controls</b>                  |  |
| <b>8.2.1 Appropriate engineering controls</b> | Guarantee that the eye flushing systems and safety showers are located close to the working place. Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. |

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### 8.2.2 Individual protection measures, such as personal protective equipment

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Take care for general good hygiene and housekeeping. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Wash contaminated clothing before reuse. Avoid contact with skin, eyes and clothes. Ensure safe systems of work or equivalent arrangements are in place to manage risks.

Eye/ face protection



Wear eye protection with side protection (EN166).

Skin protection



Hand protection: Wear impervious gloves (EN374). Suitable material: PVC, Nitrile rubber.

Body protection: Suitable material: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Recommended: EN143 Type A-P2

Thermal hazards

Not applicable

### 8.2.3 Environmental exposure controls

Not applicable.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Off-white granulated solid
Odour	Citrus
Odour threshold	No data available
pH	3.5 – 4.5 after reconstitution as instructed
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	> 100 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	Highly soluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	> 100 °C
Decomposition temperature	> 100 °C
Viscosity	0 – 5 cP after reconstitution as instructed
Explosive properties	No data available
Oxidising properties	Non-oxidising (by EC criteria)

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9.2 Other information None Known

### SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions
10.2	Chemical stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10.4	Conditions to avoid	Avoid high temperatures or direct sunlight. Avoid contact with Strong mineral acids.
10.5	Incompatible materials	Keep away from oxidising agents and strong bases.
10.6	Hazardous decomposition products	In case of fire may be liberated: Carbon monoxide and carbon dioxide.

### SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Acute toxicity - Ingestion	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
	Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/l (Dusts)
	Acute toxicity - Skin contact	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
	Skin corrosion/irritation	Mixture: Based upon the available data, the classification criteria are not met.
	Serious eye damage/irritation	Mixture Eye Irrit. 2; H319: Causes serious eye irritation. Citric Acid Eye Irrit. 2; H319: Causes serious eye irritation.
	Respiratory or skin sensitisation	Irritating to eyes. (rabbit) (OECD 405) Mixture: EUH208: Contains Nerol. May produce an allergic reaction. Nerol Skin Sens. 1B; H317: May cause an allergic skin reaction.
	Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.
	Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
	Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
	STOT - single exposure	Mixture STOT SE 3; H335: May cause respiratory irritation. Citric Acid STOT SE 3; H335: May cause respiratory irritation.
	STOT - repeated exposure	NOEL: 1000 mg/kg bw/day Mixture: Based upon the available data, the classification criteria are not met.
	Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
11.2	Other information	None

### SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Mixture: Based upon the available data, the classification criteria are not met.
12.2	Persistence and degradability	No data for the mixture as a whole. Citric Acid Readily biodegradable. Degradation rate (%): 100 (19 days) (OECD301E) Nerol Readily biodegradable. Degradation rate (%): 90 (28 days) (OECD 301D)
12.3	Bioaccumulative potential	No data for the mixture as a whole. Citric Acid The substance has low potential for bioaccumulation. log Kow: <3 Nerol The substance has no potential for bioaccumulation. BCF: 30.76 L/kg BCFBAF model (v3.01)
12.4	Mobility in soil	No data for the mixture as a whole. Citric Acid The product has high mobility in soil. Log Koc: 3-4 Nerol The product has moderate mobility in soil. Log Koc: 2.155
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.

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12.6 Other adverse effects None Known

### SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Disposal should be in accordance with local, state or national legislation.  
13.2 Additional information  
Waste classification according to Directive 2008/98/EC (Waste Framework Directive) HP4; Irritant — skin irritation and eye damage  
HP 5; Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

### SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/CAO
14.1 UN number	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)	Not applicable	Not applicable	Not applicable
14.4 Packing group	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards	Not applicable	Not applicable	Not applicable
14.6 Special precautions for user	See section 2		
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable	Not applicable	Not applicable

### SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations  
Authorisations and/or restrictions on use Not restricted  
RoHS – EEE Substance Inventory Citric acid: listed  
GB regulations Not restricted  
GB CLP – mandatory classification and labelling list Citric acid: listed  
PIC (Prior Informed Consent) Regulation Not restricted  
Poisons Act Not restricted  
UK REACH – Grandfathered registration notified substances Citric acid: listed  
UK REACH – Annex XVII (Restrictions) Not restricted

15.1.2 National regulations  
Germany Water hazard class: 1 (Self classification)

15.2 Chemical Safety Assessment A REACH chemical safety assessment has not been carried out.

### SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable - V1.0

References: Existing ECHA registration(s) for: Nerol (CAS No. 106-25-2), Citric Acid (CAS No. 77-92-9)  
Harmonised Classification(s) for: Citric Acid (CAS No. 77-92-9)

Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830. Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Classification of the substance or mixture. The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain	Classification procedure
Eye Irrit. 2; H319	Threshold Calculation
STOT SE 3; H335	Threshold Calculation
EUH208	Threshold Calculation

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### Legend

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor (BCF)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long term exposure limit
OECD	Organisation for Economic Cooperation and Development
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short-term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative

### Hazard classification / Classification code:

Skin Irrit. 2; Causes skin irritation, Category 2  
Skin Sens. 1; Skin sensitization, Category 1  
Eye Dam. 1; Eye Damage, Category 1  
Eye Irrit. 2; Eye Irritation, Category 2  
STOT SE 3; Specific Target Organ Toxicity — Single Exposure, Category 3

### Hazard Statement(s)

H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
  
EUH208: Contains Nerol. May produce an allergic reaction.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

### Disclaimers

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### Annex to the extended Safety Data Sheet (eSDS)

Exposure scenarios for substances in this preparation are not available.