



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

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

**SECTION 2: HAZARDS IDENTIFICATION**

<b>2.1</b>	Classification of the substance or mixture	
<b>2.1.1</b>	<b>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</b>	<b>Label elements</b>	The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain
	Product name	URIZAP: Uric Acid Digestor Granules
	Contains: Hazard Pictogram(s)	Not applicable   
	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.

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	%W/W	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

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.

Skin contact

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

Eye contact

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.

Ingestion

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 CO2.

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- |   |  |
|---|--|
| <p><b>6.1</b> Personal precautions, protective equipment and emergency procedures</p> | 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. |
| <p><b>6.2</b> Environmental precautions</p>   | Not applicable   |
| <p><b>6.3</b> Methods and material for containment and cleaning up</p>                | 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.                         |
| <p><b>6.4</b> Reference to other sections</p>   | See Also Section: 8, 13.   |

## SECTION 7: HANDLING AND STORAGE

- |  |   |
|--|---|
| <p><b>7.1</b> Precautions for safe handling</p>                                | 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. |
| <p><b>7.2</b> Conditions for safe storage, including any incompatibilities</p> | Keep container closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.   |
| <p>Storage temperature</p>   | Stable at ambient temperatures. Recommended: <25 °C to prolong storage life.  |
| <p>Incompatible materials</p>  | Avoid contact with combustible material. Keep away from acid.   |
| <p><b>7.3</b> Specific end use(s)</p>  | See Section: 1.2.   |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- |  |   |
|--|---|
| <p><b>8.1</b> Control parameters</p>   |   |
| <p><b>8.1.1</b> Occupational exposure limits</p>   | 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.  |
| <p><b>8.1.2</b> Biological limit value</p>   | Not established.  |
| <p><b>8.1.3</b> PNECs and DNELs</p>  | Not applicable  |
| <p><b>8.2</b> <b>Exposure controls</b></p>   |   |
| <p><b>8.2.1</b> <b>Appropriate engineering controls</b></p>                                      | 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. |
| <p><b>8.2.2</b> <b>Individual protection measures, such as personal protective equipment</b></p> | 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:**

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

**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.

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)

**Respiratory or skin sensitisation**

Mixture: Based upon the available data, the classification criteria are not met.

**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: Based upon the available data, the classification criteria are not met.

**STOT - repeated exposure**

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.  
 Estimated LC50 (Mixture): > 100 mg/l.

**12.2 Persistence and degradability**

Sodium Carbonate Peroxyhydrate

No data for the mixture as a whole.

Sodium Carbonate

Not applicable for inorganic substances.

Citric Acid

Not applicable for inorganic substances.

Readily biodegradable.

**12.3 Bioaccumulative potential**

Sodium Carbonate Peroxyhydrate

No data for the mixture as a whole.

Sodium Carbonate

Not applicable for inorganic substances.

Not applicable for inorganic substances.

Citric Acid

The substance has low potential for bioaccumulation.

**12.4 Mobility in soil**

Sodium Carbonate Peroxyhydrate

Low log Kow: <3

No data for the mixture as a whole.

Sodium Carbonate

No data available

Citric Acid

No data available

**12.5 Results of PBT and vPvB assessment**

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.

**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. 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.

**SECTION 14: TRANSPORT INFORMATION**

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

**SECTION 15: REGULATORY INFORMATION**

<b>15.1</b>	Safety, health and environmental regulations/legislation specific for the substance or mixture		
<b>15.1.1</b>	EU regulations		
<b>1</b>	Authorisations and/or restrictions on use	Not restricted	
	<b>GB Regulations</b>	Not restricted	
<b>15.1.1</b>	National regulations		
<b>2</b>	Wassergefährdungsklasse (Germany)	Water hazard class: 1 (Self classification)	
<b>15.2</b>	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

Classification of the substance or mixture according to The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain	Classification Procedure
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

Version: 1.1 Date: 19<sup>th</sup> April 2023ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830  
AS AMENDED BY UK REACH REGULATIONS SI 2019/758

URIZAP

IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
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**

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

Exposure scenarios for substances in this preparation are not available.