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ABC
CRAFTED SERIES™

POTASSIUM METABISULPHITE

MATERIAL SAFETY DATA SHEET

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

1.1. Product Identifier

Product Name	Potassium Metabisulphite	Trade Name	Dipotassium Disulphite
CAS-No.	16731-55-8	EINECS No	240-795-3

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


Relevant identified uses	Preservative. Food additive.
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2 Hazards Identification

2.1. Classification of the substance or mixture

Classification under Regulation (EC) No 1728/2008	Eye irritation (Category 2), H319
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2.2. Label Elements

Labelling according to regulation (EC) no 1272/2008		Signal Word	Danger
		Hazard Pictograms	GHS05: Corrosion
Hazard Statements	H318: Causes serious eye damage		
Precautionary Statements: Prevention	P280: Wear protective gloves/eye protection/face protection		
Precautionary Statements: Response	<p>P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P301+312+330: IF SWALLOWED: Immediately call a POISON CENTER or Doctor/physician. If you feel unwell. Rinse Mouth.</p>		
Precautionary Statements: Storage	P403 + P235: Store in a well-ventilated place. Keep cool		
Precautionary Statements: Disposal	P501: Dispose of contents/ container to an Approved waste disposal plant.		
Supplemental Hazard Information (EU)	EUH031: Contact with acids liberates toxic gas. (sulphur dioxide)		

3 Composition/Information on ingredients

3.1. Substances - Hazardous Component(s)

Chemical Name	Classification	Concentration
Dipotassium disulphite	Eye Dam. 1; H318, EUH031	100%
CAS-No. 16731-55-8		
EC-No. 240-795-3		

4 First aid measures

4.1. Description of first aid measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact	Wash off with soap and plenty of water. Consult a physician.

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

Symptoms and effects	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
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5 Firefighting measures

5.1. Extinguishing media

Extinguishing media	Water, Dry Powder
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5.2. Special hazards arising from the substance or mixture

Specific hazards during fighting	Sulphur oxides, Potassium oxides
Hazardous combustion products	Carbon monoxide (CO)

5.3. Advice for firefighters

Special protective equipment	In case of fire, wear a self-contained breathing apparatus.
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6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2. Environmental Precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

For contaminant: Pick up and arrange disposal without creating dust.
For cleaning up: Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

7 Handling and storage

7.1. Precautions for safe handling

Protective measures	Avoid contact with skin and eyes.
Measures to prevent fire	This product is not flammable, Keep ignition sources away. Do not smoke and protect against electrostatic charges. Product is non-combustible.
Measures to prevent aerosol and dust generation	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
Measures to protect the environment	Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	Keep in a dry, cool and well-ventilated place. Do not store together with: oxidizing agents. Protect from acids and acid forming substances.
Requirements for storage rooms and vessels	No special requirements.
Further information on storage conditions	Store in cool, dry conditions in well-sealed receptacles. Protect from exposure to the light.

7.3. Specific end use(s)



Specific use(s)	Apart from uses mentioned in section 1.2 no Other specific uses are stipulated.
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8 Exposure controls / personal protection

8.1. Control Parameters

Components with workplace control parameters	Contains no substances with occupational exposure limit values.
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8.2. Exposure control

Personal protective equipment (PPE):	  
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Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
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Eye/ Face Protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
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Skin Protection	<p>Avoid contact with skin. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.</p> <p>Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)</p> <p>Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)</p> <p>If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.</p>
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Body Protection	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
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Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
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Hygiene Measures	Hands and/or face should be washed before breaks and at the end of the shift.
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8.3. Environmental Exposure

Control of environmental exposure	Do not let product enter drains.
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9 Physical & Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State	Solid
Appearance	Powder
Colour	White
Odour	Slightly pungent
pH	(at 50 g/l 200°C) 3.5 – 4.5
Melting point/freezing point	1900°C starts to decompose at 1500°C
Bulk Density	1100-1300 kg/m ³
Water Solubility	(200°C) 450 g/l water

10 Stability & Reactivity

Reactivity	No data available.
Chemical stability	Starts to decompose at 1500°C
Possibility of hazardous reactions	Nitrites, nitrate, oxidising agent
Incompatible materials	Acids, NaNO ₂ , NaNO ₃ , oxidizing agent.
Hazardous decomposition products	In the event of a fire Sulphur Dioxide is present

11 Toxicology Information

11.1. Information on toxicological effects

Acute Oral Toxicity

Practical experiment/ Human evidence: Animal Data

Product	Test	Species	Quantity	Exposure time
Potassium Metabisulphite	LD50-Oral	Rat	2300 mg/kg	

Respiratory or skin sensitisation

The substance may cause sensitisation of the respiratory tract on particularly sensitive individuals. Can sensitize the skin and/or respiratory tract of allergic persons.

12 Ecological Information

12.1. Toxicity

Species	Test	Value	Exposure time
Brachydanion rerio	LC50	460-1000mg/l	96hr
Pseudomonas putida	EC50	65 mg/l	17hr

12.2. Persistence and degradability

Inorganic product which cannot be eliminated from water by biological purification processes.

12.3. Bio accumulative potential

Because of the n-octanol/water distribution coefficient (log PoW) accumulation in organisms is not to be expected. Chemical oxygen demand (COD) (Calculated) approx 140 mg/g.

12.4. Other Hazards

Higher concentrations of the substance may cause a strong chemical oxygen consumption in biological sewage-treatment plants and/or waterways. The inhibition of the degradation of the activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

13 Disposal Considerations

13.1. Waste treatment methods

Product/package disposal	Contaminated packs should be emptied as far as possible, they can then be passed on for recycling after being thoroughly cleaned.
Waste treatment relevant information	Must be dumped or incinerated in accordance with local regulations. Special Waste.
Sewage disposal relevant information	Do not let product enter drains. Discharge into the environment must be avoided.

14 Transport Information

Not classified as hazardous under transport regulations.

15 Other Information

Full text of H-Phrases referred to under sections 2 & 3:

H318 – Causes serious eye damage
EUH031 – Contact with acids liberates toxic gas. (sulphur dioxide)