MATERIAL SAFETY DATA SHEET

POTASSIUM METABISULPHITE

SECTION 1: Identification of the substance/preparation and of the company/undertaking	
1.1 Product Identifier	
Substance Name:	Potassium Metabisulphite
Trade Name(s):	Dipotassium Disulphite
REACH Registration number:	n/a
CAS No / EINECS No:	16731-55-8 / 240-795-3
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Relevant Identified uses:	Preservative. Food additive.
Uses advised against:	None Known.
1.3 Details of the supplier of the safety data sheet	
Supplier:	Philip Jones House Poole Hall Industrial Estate Ellesmere Port Cheshire CH66 1ST United Kingdom Tel: +44 (0) 151 356 5985 Fax: +44 (0) 151 355 0416 Enquiries@bevie.co
1.4 Emergency telephone number	
Please contact:	Tel: +44 (0) 151 356 5985 Fax: +44 (0) 151 355 0416 Enquiries@bevie.co
Opening Hours:	Mon-Thurs: 8:00 – 17:00 GMT Fri: 8:00 – 14:00 GMT
Other comments:	English

SECTION 2: Hazards Identification	
2.1 Classification or the substance or mixture	
Classification according to (EC 1272/2008) [CLP]:	Eye irritation (Category 2), H319
2.2 Label elements	
Label In Accordance With (EC) No. 1272/2008 [CLP]:	
Signal word:	Danger
Hazard Pictograms:	GHS05: Corrosion
Hazard Statements:	**H318** - Causes serious eye damage
Precautionary Statements:	
Prevention:	**P280** – Wear protective gloves/protective clothing/eye protection/face protection.

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. **P301+312+330** – IF SWALLOWED: Immediately call a POISON CENTER or Doctor/physician. If you feel unwell. Rinse Mouth.
Storage:	**P403 + P235** Store in a well-ventilated place. Keep cool
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)

SECTION 3: Composition/Information on ingredients			
3.1 Substances			
3.2 Mixtures			
Hazardous Component(s)			
Chemical Name	**CAS – No.**	**Classification (REGULATION (EC) No 1272/2008)**	**Concentration [%]**
Dipotassium disulphite	16731-55-8 240-795-3	Eye Dam. 1; H318, EUH031	100%

SECTION 4: First Aid Measures	
4.1 Description of first aid measures	
4.1.1 General Information:	Consult a physician. Show this safety data sheet to the doctor in attendance.
4.1.2 Following Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
4.1.3 Following Skin contact:	Wash off with soap and plenty of water. Consult a physician.
4.1.4 Following eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
4.1.5 Following Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.1.6 Self-protection of the first-aider:	No data available
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.
Risks:	No data available.
4.3 Indication of any immediate medical attention and special treatment needed	
Special treatment:	No data available.

Note to doctor:	No data available.

SECTION 5: Fire Fighting Measures	
5.1 Extinguishing media	
Extinguishing media:	Water, Dry Powder
Unsuitable extinguishing media:	Unknown
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 for fire-fighters	In case of fire, wear a self-contained breathing apparatus.

SECTION 6: Accidental Release Measures	
6.1 Personal precautions, protective equipment and emergency procedures	
6.1.1 Non-emergency personnel/ emergency responders:	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	
Environmental precautions:	Do not let product enter drains.
6.3 Methods and material for containment and cleaning up	
6.3.1 For contaminant:	Pick up and arrange disposal without creating dust.
6.3.2 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.
SECTION 7: Handling and Storage	
7.1 Precautions for safe handling	
7.1.1 Protective measures:	Avoid contact with skin and eyes.
7.1.2 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.
7.1.3 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.
7.1.4 Measures to protect the environment:	Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.
7.1.5 Advice on general occupational hygiene:	No data available
7.2 Conditions for safe storage, including any incompatibles	
7.2.1 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.
7.2.2 Requirements for storage rooms and vessels:	No special requirements.

7.2.3 Further information on storage conditions:	Store in cool, dry conditions in well-sealed receptacles, Protect from exposure to the light.
German storage class:	N/A
7.3 Specific end use(s)	
Recommendations:	Apart from uses mentioned in section 1.2 no Other specific uses are stipulated.

SECTION 8: Exposure Control/Personal Protection	
8.1 Control Parameters	
8.1.1 WEL (UK) – Long term exposure limit:	Contains no substances with occupational exposure limit values.
– Short term exposure limit:	
8.2 Exposure control	
8.2.1 Personal Protective Equipment (PPE).	
Engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Skin Protection:	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. **Full contact** Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) **Splash contact** Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) 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.
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).
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).
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.
Hygiene Measures:	Hands and/or face should be washed before breaks and at the end of the shift.
8.3 Environmental Exposure	
General Advice:	Do not let product enter drains.
Substance/mixture related measures to prevent exposure:	No data available
Instruction measures to prevent exposure	No data available
Technical measures to prevent exposure:	No data available

SECTION 9: Physical & Chemical Properties	
9.1 Information on basic physical and chemical properties	
Physical State:	Solid
Form:	Powder
Colour:	White
Odour:	Slightly pungent
Odour Threshold:	No data available
Flash Point:	No data available
Lower explosion limit:	No data available
Upper explosion limit:	No data available
Flammability (solid, gas):	No data available
Oxidising properties:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
pH:	(at 50 g/l 200°C) 3.5 – 4.5
Melting point/freezing point:	1900C starts to decompose at 1500°C
Initial Boiling Point and boiling point range:	No data available
Vapour Pressure:	No data available

Relative Density:	No data available
Bulk Density:	1100-1300 kg/m3
Water Solubility:	(200°C) 450 g/l water
Solubility/qualitative:	No data available
Viscosity, kinematic:	No data available
Relative vapour density:	No data available
Evaporation rate:	No data available
Explosive properties:	No data available
9.2 Other Safety Information:	No data available

SECTION 10: Stability & Reactivity	
10.1 Reactivity:	No data available
10.2 Chemical stability:	Starts to decompose at 1500C
10.3 Possibility of hazardous reactions:	
Hazardous Reactions:	Nitrites, nitrate, oxidising agent
10.4: Conditions to avoid	
Conditions to avoid:	No data available
10.5 Incompatible Materials	
Materials to avoid:	Acids, NaN02, NaN03, oxidizing agent.
10.6 Hazardous decomposition products	In the event of a fire Sulphur Dioxide is present

SECTION 11: Toxicology Information

11.1 Information on toxicological effects

Acute Oral Toxicity

Practical experiment/ Human evidence

11.1.1 Animal Data

Product	Test	Species	Quantity (mg/m3)	Exposure time
Potassium Metabisulphite	LD50- Oral	Rat	2300 mg/kg	-

Skin corrosion/Irritation:	No data available
Serious eye damage/eye irritation:	No data available
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.
Germ call mutation	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity (single exposure):	No data available
Specific target organ toxicity (repeated exposure):	No data available
Aspiration hazard:	No data available
Additional Information:	No data available

SECTION 12: Ecological Information

12.1 Toxicity		Ecological data is not available as this has not been monitored into the environment.	
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 is organisms is not to be expected. Chemical oxygen demand (COD) (Calculataed) approx 140 mg/g.	
12.4 Mobility in soil:		No data available	
12.5 Results of PBT and vPvB assessment:		No data available	
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.	
SECTION 13: Disposal Considerations			
13.1 Waste treatment methods			
Waste disposal according to directive 2008/96/EC, covering waste and dangerous waste			
13.1.1 Product/packaging disposal:		Contaminated packs should be emptied as far as possible, they can then be passed on for recycling after being thoroughly cleaned.	
13.1.2 Waste treatment- relevant information:		Must be dumped or incinerated in accordance with local regulations. Special Waste.	
13.1.3 Sewage disposal – relevant information:		*Do not let product enter drains. Discharge into the environment must be avoided.*	
13.1.4 Other disposal recommendations:		The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom)	

SECTION 14: Transport Information	
14.1 UN number:	Not classified as hazardous under transport regulations.
14.2 UN proper shipping name;	n/a
14.3 Transport hazard class(es):	n/a
14.4 Packaging group:	n/a
14.5 Environmental hazards:	n/a
14.6 Special precautions for user:	n/a
14.7 Transport in bulk according to Annex II of MARPOL and the IBC code:	n/a

SECTION 15: Regulatory Information

15.1 Safety, health and environment regulation/legislation specific for the substance or mixture	
Authorities and/or restrictions on use:	No data available
Other EU legislation:	No data available
National Regulations (UK):	No data available
Water contamination Class (Germany):	No data available
15.2 Chemical Safety Assessments:	No data available

SECTION 16: 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)

Disclaimer
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of Bevie Partners Ltd knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for his own particular use.