MATERIAL SAFETY DATA SHEET

Potassium Metabisulphite

KAURI MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND SUPPLIER

Product Trade Name	Potassium Metabisulphite (E224)
Chemical name of the pre-registered substance	Dipotassium Disulphite
Synonym names	Potassium Disulphite, Potassium Pyrosulphite
CAS number	16731-55-8
EINECS number	240-795-3
Pre-registration number	FL345746-27

Contact Details

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

Potassium Disulphite 92-100 %
CAS number: 16731-55-8
EINECS number: 240-795-3

Potassium Sulphate 0-8 %
CAS number: 7778-80-5
EINECS number: 231-915-5

3. HAZARD IDENTIFICATION

Health Hazards

Signal word: Danger

Pictogram:

Potential Health Effects

Eye contact

Eye Damage 1
H318 Causes serious eye damage.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Skin contact

P280 Wear protective gloves/protective clothing/eye protection/ face protection.
The personal eye protector should meet EN 166 European Standard (type 4 B : the lenses should be made from polycarbonate and resist medium energy impact (120 m/s))

EUH031 Contact with acids liberates toxic gas.

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4. FIRST AID MEASURES

Eye Contact	Immediately rinse eyes cautiously with water for several minutes (min 15 minutes) with the eyelids wide open. Medical attention is required.
Skin Contact	Remove contaminated clothing and wash affected skin area with soap and plenty of running water.
Ingestion	If the exposed individual is conscious, rinse the mouth with water and make the individual drink water. Medical attention is required if necessary.
Inhalation	Movement of the exposed individual from the area to fresh air is recommended.
General notices	Removal and handling of contaminated clothing and shoes from the individual are recommended.

5. FIRE FIGHTING MEASURES

Flash Point	No data
Extinguishing Media	Water spray, foam, CO_2 extinguisher, sand extinguisher.
Special Fire Fighting Procedures	Protective actions to be taken: wear closed protective clothing and closed-circuit self-contained breathing apparatus with compressed air. The liberated gases, fumes and vapour shall be eliminated with water spray.
Additional Hazards	None Noted

6. SPILLAGE/ACCIDENTAL RELEASE MEASURES

Spill procedures	The spilled or released substance can be swept up and placed into well-sealed containers.
Waste disposal Method	Dispose of according to appropriate regulations.

7. HANDLING AND STORAGE

Handling	It can only be used in well-ventilated places. Not combustible but keep it away from sources of heat. When handling the substance, keep it away from oxidising agents, strong acids or strong alkalis. Avoid dust formation. Individuals handling the substance must not eat, drink or smoke. Wash hands thoroughly after contact with the substance. The national limits and values must be checked before use. SO_2 causes skin or eye corrosion, mucous membrane burns or all the three.

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Suitable storage conditions	Store the substance in closed containers in dry, cool, well-ventillated places away from heat sources. Keep it away from acids, oxidizing agents, sodium nitrite, sodium nitrate and sodium sulphides. Optimal storage temperature: +5 ºC and +35 ºC
Incompatible products / materials	Keep the substance away from oxidising agents, strong acids, nitrites, nitrates and sulphides.
Conditions to avoid	Avoid high temperatures, because the substance decomposes over approx. 190 ºC.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Contact	During formulation and handling of the substance the exposed individuals must wear a personal eye protector (EN 166 – type: BT 2-1,2 LUX 018T with polycarbonate lenses, able to resist medium energy impact (120 m/s) and able to protect against large dust particles).
Skin Contact	During the formulation of the substance the exposed individuals must wear protective gloves against mechanical risks (EN 388:2003) or protective gloves against chemicals (EN 374 1-2-3: 2003). material: Synthetic PVC
Ingestion	No data.
Inhalation	During formulation of the substance the exposed individuals must wear respiratory protective device (amended Standard EN 149:2001+A1:2009 - the admissible maximum pollutant concentration is the 4,5-fold MAK* value) or EN 141:2000 ABEK Filtering half masks to protect against particles, organic and inorganic gas and vapour as well as acid gas, ammonia and organic ammonia derivates.

9. PHYSICAL AND CHEMICAL DATA

Smoke Point	No data
Flash Point	No data
Solubility in Water	~ 450 g/l (at 20 ºC): it decomposes in the presence of water, during which potassium-hydrogen-sulphite is formed, from which sulphur dioxide is liberated
Physical State	solid crystalline substance or powder
Relative Density	2.34 kg/l
Volatiles	No data

10. STABILITY AND REACTIVITY

Stability	The substance is stable if stored in closed containers under normal conditions. The substance should be kept away from oxidising agents, nitrites, nitrates, acids, heat sources and moisture.

Conditions to avoid	Avoid high temperatures, because the substance decomposes over approx. 190 ºC.
Materials to avoid	Keep the substance away from oxidising agents, strong acids, nitrites, nitrates and sulphides.
Hazardous decomposition products	Potassium oxides, sulphur oxides (sulphur oxide, sulphur dioxide), potassium sulphite

11. TOXICITY INFORMATION

Effects of Overexposure

Sulphur Dioxide (SO_2) is liberated in the presence of oxidising agents, nitrites, nitrates, acids and heat. SO_2 is a colourless, toxic gas of pungent odour at room temperature. SO_2 irritates mucous membranes and destroys red blood cells.

Toxicity Data

Acute toxicity: p. o. LD50: 2300mg/kg

Skin corrosion/irritation: not irritant (test on rabbits)

Serious eye damage/irritation: might cause serious eye damage (test on rabbits)

Respiratory or skin sensitisation: LC50> 5,5 mg/l (4-hour contact test on rats) Not sensitising (test on guinea pigs).

Germ cell mutagenicity: absence of specific data

Carcinogenicity: test results do not show

Reproductive toxicity: absence of specific data

STOT-single exposure: absence of specific data

STOT-repeated exposure: absence of specific data

Aspiration hazard: absence of specific data

12. ECOLOGLICAL INFORMATION

Environmental Hazard

In case of an accidental spill or the release of the substance, the substance must be cleaned up and collected into plastic containers which can be closed tightly, or it should be taken to an incinerator capable of handling hazardous waste.

The substance is water-soluble. When diluted in water, decomposition occurs during which SO_2 is released, therefore the substance must not enter drainage systems, surface waters and reservoirs. After the collection of the dust of the substance, the remaining dust particles can be washed off with water from the floor of the working area.

If the material gets into surface waters, it significantly reduces the level oxygen on the surface of the water, which has a negative impact on living organisms.
Brachydanio rerio LC50 (96h): 460-1000 mg/l
Pseudomonas putida EC/LD 50 (17 h): 65 mg/l

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13. DISPOSAL INFORMATION

Waste disposal method	The unused substance can be burnt in chemical incinerators equipped with gas purification device. The substance should not be mixed with any other mixtures or substances. The contaminated packaging material has to be disposed of in accordance with regulations relevant to EWC 061399. Disposal considerations and actions must comply with Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives and national and local regulations. Dispose according to regional regulations.

14. TRANSPORT INFORMATION

Transport options	By transport regulations the substance is not classified as dangerous. UN number not applicable UN proper shipping name not applicable Transport hazard class(es) not applicable Packing group not applicable Environmental hazards not applicable Special precautions for user not applicable Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code not applicable

15. REGULATORY INFORMATION

Chemical Safety Assessment	Chemical safety assessment has not been performed.

16. OTHER INFORMATION

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