

Product Name :

Potassium Metabisulfite

FOOD GRADE (E224)

Date Révision : 2010.11.17

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) N°1907/2006

1 : IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Name : POTASSIUM METABISULFITE Powder min.95 %
Company: CHAUMAT CHIMIE – Quartier de rondy – 12400 SAINT AFFRIQUE (FRANCE)
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Emergency information : 0.800.07.42.28 ORFILA : 01.45.42.59.59

2 : HAZARDS IDENTIFICATION

According to REGULARISATION N°1272/2008 on classification, labelling and packaging

Pictograms



Signal word : Danger

Cause serious eye damage- May cause irritation respiratory /Wear protectives gloves, clothing and eye or face protection-Use only outdoors or in a well ventilated area-Avoid breathing dust, fume, gas, mist, vapours, spray

IF IN EYES: Rinse cautiously with water for several minutes- Remove contact lenses, if present and easy do-continue rinsing-immediately call a POISON CENTER or doctor

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing / Store in a well-ventilated place-Keep container tightly closed-Store locked up/ Dispose of contents, container to hazardous or special waste collection point/

Classification of the substance:

Serious eye damage/eye irritation: **cat.1**

Specific target organ toxicity following single exposure: **cat.3** (irritating to respiratory system)

Contact with acids liberates toxic gas.

3 : COMPOSITION / INFORMATION ON INGREDIENTS

CAS # : 16731 – 55 – 8

Chemical Formula : K₂S₂O₅

EC Nr : 240 - 795 – 3

SYNONYMS : Dipotassium Disulphite, Dipotassium Metabisulfite, Disulfurous Acid, Dipotassium Salt, Potassium Disulfite, Pyrosulfurous Acid Label precautionary statements

4 : FIRST AID MEASURES

Remove contaminated clothing.

On ingestion, rinse mouth and drink plenty of water.

If inhaled, remove to fresh air and seek medical attention. After inhalation of decomposition products inhale corticosteroid dose aerosol.

On skin contact, wash skin with soap and water.

On contact with eyes, immediately wash eyes for at least 15 minutes under water with eyelids held open with eyelids held open and consult an eye specialist .

Risk of sulphur dioxide formation by reaction with gastric acid after swallowing.

5 : FIRE / FIGHTING MEASURES

Suitable extinguishing Media : foam

Special protective equipment : Wear a self-contained breathing apparatus

Specific hazard: Sulfur dioxide can be released if the product is involved in a fire.

Contaminated water must be disposed of in accordance with official regulations. In case of fire or explosion do not breathe fumes.

6 : ACCIDENTAL RELEASE MEASURES

Do not discharge into drains, groundwater, surface waters, into the soil, the subsoil.

Use personal protective clothing. Ensure adequate ventilation. Avoid dust formation and contact with eyes.

For cleaning up : Sweep/shovel up – correctly dispose of recovered product immediately.

7 : HANDLING AND STORAGE

Handling :Keep in a tightly closed container, keep in a cool place, dry, ventilated place. Protect against physical damage. Use only in well-ventilated areas. Avoid dust formation.

Storage :Segregate from acids , from acids forming substances and from oxidants. Do not store with sodium nitrate, sodium nitrite, sodium sulphide/ Non – combustible . No special precautions necessary.

8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters **Sulfur dioxide** : 7446-09-5

Personal protective equipment:

Handle in accordance with good industrial hygiene and safety practice. Do not inhale vapours or dust .Hands or face should be washed before breaks and at the end of the shift.

Eye protection :Tightly fitting safety goggles (e.g EN 166)

Respiratory protection : Breathing protection if dusts are formed: particle filter with low efficiency for solid particles (e.g. EN 143 or 149, type P1 or FFP1) Breathing protection if breathable aerosols are formed : Combination filter for gas of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e.g. EN 14387 type ABEK-P3)

Hand protection: Chemical resistant protective gloves (EN 374) with prolonged, direct contact (protective indice 6, corresp > 480 min of permeation time according to EN 374): E.g. nitrile rubber 0.4 mm, chloroprene rubber 0.5 mm, butyl rubber 0.7 mm and other.

9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder white / Odor : faint odour, of sulfur dioxide
Solubility in water : hydrolyzes, approx.450 g/l (20°C) /Bulk density : 1.100 or 1.300 kg / m³
Decomposition point : 150°C – Partitioning coefficient n-octanol / water (log Pow): not applicable / Viscosity, dynamic : not applicable

10 : STABILITY AND REACTIVITY

Thermal decomposition: > 150°C To avoid thermal decomposition, do not overheat.

Substances to avoid : acids, oxidizing agents, nitrites, nitrates, sulfides

Hazardous combustion or decomposition products : Reacts with acids, nitrates, nitrites or with oxidizing agents .May release sulfur dioxide.

11 : TOXICOLOGICAL INFORMATION.

ACUTE TOXICITY : Virtually non toxic after a single ingestion or by inhalation: LD50 rat (oral) approximat 2.3 mg/kg and LC50 rat (by inhalation) > 5.5 mg/ l 4 h. It hasn't be tested, it has been derived from of a similar structure and composition. Tested as dust aerosol.

SKIN SENSITIZATION: Assessment of sensitization but a sensitizing effect on particularly individuals can not be excluded.

IRRITATION: Risk of serious damage to eyes: irreversible damage and not irritating to the skin (animal studies : rabbit).

GENETIC TOXICITY: No mutagenic effect

REPRODUCTIVE TOXICITY : No indication of a fertility impairing effect It hasn't be tested, it has been derived from of a similar structure and composition.

DEVELOPMENTAL TOXICITY : No indication of a developmental toxic effect were seen in animal studies.

CARCINOGENICITY: in long term studies in rats and mice in wich this substance was given by drinking-water, a carcinogenic effect was not observed

12 : ECOLOGICAL INFORMATION

Higher concentrations may cause a strong oxygen consumption in biological treatment plants or waterways. The inhibition of the degradation activity of activated sludge isn't anticipated when introduced to biological treatment plants in appropriate low concentrations.

ECOTOXICITY : Acutely harmful for aquatic organisms . It may be hydrolyse and may be partially due to degradation products.

To fish: LC50(96h)460-1000 mg/l, brachydanio rerio (OECD 203 ; ISO 7346; 84/449, EEC, C.1, static) Nominal concentration/ To aquatics invertebrates: EC50(48h)104 mg/l, Daphnia magna (Directive 79/831/eec, static) Nominal concentration/ To aquatics plants : EC50(72h)56 mg/l (growth rate)Scenedesmus subspicatus (other, static) Nominal concentration
It hasn't be tested, it has been derived from of a similar structure and composition / Effect on activated sludge: EC10(17h)32 mg/l, Pseudomonas sp.(DIN38412 Part 8,aquatic) Nominal concentrat° .

PERSISTANCE AND BIODEGRADABILITE: assessment biodegradation and elimination (H₂O)Inorganic product wich can't be eliminated from water by biological purification process. Chemical oxygen demand (COD): approximat 140 mg/g

BIOACCUMULATION POTENTIAL: The coefficient accumulation in organisms isn't be expected because of the n-octanol distribution.

13 : DISPOSAL CONSIDERATIONS

Contaminated packaging should be emptied as far as possible It can be passed on for recycling after being thoroughly cleaned. Contact waste centre regarding recycling. Must be dumped or incinerated in accordance with local regulations.

14 : TRANSPORT INFORMATION

Not classified as a dangerous good under transport regulations
(ADR RID ADNR IMDG IATA/ICAO)

15 : REGULATORY INFORMATION

Regulations of the European union (Etiquetage) National legislation/Regulations :
EC Number : 240-795-3

As in Annex VI of Directive 67/548/EEC: Hazard symbol Xi = Irritant

R phrases :

R 37 Irritating to respiratory system
R41 Risk of serious damage to eyes
R 31 Contact with acids liberates toxic gas

S phrases :

S39 Wear eye and face protection
S 26 in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Self classification : Hazard determining component for labelling : Dipotassium disulphite

16 : OTHER INFORMATION

Any other intended applications should be discussed with the manufacturer.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Chaumat Chimie shall not be held liable for any damage resulting from handling or from contact with the above product.