



# SAFETY DATA SHEET

Revision Date 24-Nov-2010

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Description:**

Potassium metabisulfite

**Cat No.**

418270000; 418270250; 418275000

**Synonyms**

Pyrosulfurous Acid, Dipotassium Salt; Dipotassium Disulfate; Potassium Pyrosulfate

### Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use**

Laboratory chemicals

**Uses advised against**

No Information available

### Details of the supplier of the safety data sheet

#### Company

Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

**E-mail address**

begel.sdsdesk@thermofisher.com

#### Emergency Telephone Number

For information in the US, call: 800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number, US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

**REGULATION (EC) No 1272/2008**

Serious Eye Damage/Eye Irritation	Category 1
Specific target organ systemic toxicity (single exposure)	Category 3

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16

**Symbol(s)**

Xi - Irritant

**R -phrase(s)**

R31 - Contact with acids liberates toxic gas

R37 - Irritating to respiratory system

R41 - Risk of serious damage to eyes

### Label Elements

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**2. HAZARDS IDENTIFICATION**



**Signal Word**

**Danger**

**Hazard Statements**

H318 - Causes serious eye damage  
H335 - May cause respiratory irritation  
EUH031 - Contact with acids liberates toxic gas

**Precautionary Statements - EU (§28, 1272/2008)**

P280 - Wear eye protection/face protection  
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  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P233 - Keep container tightly closed

**Other Hazards**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	EC No.	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg. No.
Potassium metabisulfite 16731-55-8	EEC No. 240- 795-3	97	16731-55-8	R31 Xi; R37 Xi; R41	STOT SE 3 (H335) Eye Dam. 1 (H318) (EUH031)	-

For the full text of the R phrases mentioned in this Section, see Section 16

**4. FIRST AID MEASURES**

**Description of first aid measures**

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Obtain medical attention

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<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes Obtain medical attention
<b>Ingestion</b>	Clean mouth with water Get medical attention
<b>Inhalation</b>	Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Obtain medical attention
<b>Notes to Physician</b>	Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

#### **Suitable Extinguishing Media**

Water spray Carbon dioxide (CO<sub>2</sub>) Dry chemical chemical foam

#### **Extinguishing media which must not be used for safety reasons**

No information available.

### Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

### Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

### Environmental precautions

Prevent further leakage or spillage if safe to do so

### Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid contact with skin and eyes Do not breathe dust Do not breathe vapors or spray mist

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place Keep container tightly closed Keep away from acids

### Specific End Uses

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters**
**Exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)**

No information available.

**Predicted No Effect Concentration (PNEC)**

No information available.

**Exposure controls**
**Engineering Measures**

Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location

**Personal protective equipment**
**Eye Protection**

Goggles

**Hand Protection**

Protective gloves

**Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure

**Respiratory Protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls**

No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State**

Powder, Solid

**Appearance**

Off-white

**odor**

rotten-egg like

**pH**

3.5-4.5 5% aq. sol.

**Vapor Pressure**

No information available.

**Vapor Density**

No information available.

**Boiling Point/Range**

No information available.

**Melting Point/Range**

190°C / 374°F

**Decomposition temperature**

150 °C

**Flash Point**

No information available.

**Water Solubility**

450 g/l water (20°C)

**Molecular Formula**

K<sub>2</sub> O<sub>5</sub> S<sub>2</sub>

**Molecular Weight**

222.33

## 10. STABILITY AND REACTIVITY

**Reactivity**
**Chemical Stability**

Stable under normal conditions

**Possibility of Hazardous Reactions**
**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Hazardous Reactions .**

No information available.



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**Conditions to Avoid**

Temperatures above 71°C, Incompatible products.

**Incompatible Materials**

Acids.

**Hazardous Decomposition Products**

Sulfur oxides.

**11. TOXICOLOGICAL INFORMATION**

**Information on Toxicological Effects**

**Acute Toxicity**

**Product Information**

No acute toxicity information is available for this product

**Component Information**

**Component**

Potassium metabisulfite

LD50 Oral	LD50 Dermal	LC50 Inhalation
1800 mg/kg ( Rat )		

**Chronic Toxicity**

**Carcinogenicity**

There are no known carcinogenic chemicals in this product

**Sensitization**

No information available.

**Mutagenic Effects**

No information available

**Reproductive Effects**

No information available.

**Developmental Effects**

No information available.

**Target Organs**

No information available.

**Other Adverse Effects**

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

**Endocrine Disruptor Information**

None known

**12. ECOLOGICAL INFORMATION**

**Toxicity**

**Ecotoxicity effects**

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium metabisulfite		220 - 460 mg/L LC50 96 h 460 - 1000 mg/L LC50 96 h	EC50 = 65 mg/L 17 h	

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**Persistence and degradability**

No information available

**Bioaccumulative potential**

No information available.

Component	log Pow
Potassium metabisulfite	0

**Mobility in soil**

**Results of PBT and vPvB assessment**

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste from Residues / Unused Products**

Dispose of in accordance with local regulations

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal

**14. TRANSPORT INFORMATION**

**IMDG/IMO**

Not regulated

**ADR**

Not regulated

**IATA**

Not regulated

**15. REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**International Inventories**

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Potassium metabisulfite	240-795-3	-		X	X	-	X	X	X	X	KE-12700 X

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory Lists

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**Potassium metabisulfite****Revision Date 24-Nov-2010****PICCS** - Philippines Inventory of Chemicals and Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**CHINA** - China Inventory of Existing Chemical Substances**AICS** - Inventory of Chemical Substances**KECL** - Existing and Evaluated Chemical Substances**Chemical Safety Assessment****16. OTHER INFORMATION****Text of R phrases mentioned in Section 2-3**

R31 - Contact with acids liberates toxic gas

R37 - Irritating to respiratory system

R41 - Risk of serious damage to eyes

**Revision Date** 24-Nov-2010**Revision Summary** Not applicable**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

**End of Safety Data Sheet**