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## 1. Identification of the substance/mixture

### 1.1. Product identifier

Product name : Potassium Sulfate  
Chemical family : Inorganic compound

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

Identified uses : Fertilizer for chloride sensitive crops such as : tobacco, tea, pineapple, potato, tomato, grape, guava, orange, apple, watermelon, star fruit, citrus, papaya, other fruits and vegetables, Manufacture of Potash Alum, Manufacture of Gypsum Cement, Manufacture of Glass

## 2. Hazard Identification

No hazardous product as specified in Directive 67/548/EEC

## 3. Composition / information on ingredients

Formula :  $K_2SO_4$   $K_2O_4S$  (Hill)  
CAS No. : 7778-80-5  
EC No. : 231-915-5  
Molar mass: 174.26 g/mol

## 4. First aid measures

After inhalation : fresh air.  
After skin contact : wash off with plenty of water. Remove contaminated clothing.  
After eye contact: rinse out with plenty of water.  
After swallowing : make victim drink water. Consult doctor if feeling unwell

## 5. Fire-fighting measures

### *Suitable Extinguishing media*

use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### *Special hazards during fire fighting*

No combustible. Ambient fire may liberate hazardous vapours.

Fire may cause evolution of : sulphur oxides.

### *Special protective equipment for fire fighters*

in the event of fire, wear self-contained breathing apparatus.

## 6. Accidental release measures

*Personal precautions*

Avoid substance contact. Avoid inhalation of dusts. Ensure adequate ventilation

*Environmental precautions*

Do not empty into drains

*Methods for cleaning up*

Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

## 7. Handling and storage

*Handling*

No further requirement

*Storage*

Tightly closed. Dry

## 8. Exposure controls/personal protection

*Respiratory protection*

Required when dusts are generated.

*Eye protection*

Safety glasses

*Hygiene measures*

Change contaminated clothing. Wash hands after working with substance.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Form	solid
Colour	white
Odour	odourless
pH(20 °C)	below 7 at 50 g/l
Viscosity, dynamic	no data available
Melting point	1,069 °C
Boiling point/boiling range	1,689 °C at 1,013 hPa
Ignition temperature	not applicable
Flash point	not applicable
Oxidizing properties	no data available
Flammability	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	no data available
Relative vapour density	not applicable
Density	2.66 g/cm <sup>3</sup> at 20 °C
Bulk Density	ca. 1,200 kg/m <sup>3</sup>



Solubility/qualitative	no data available
Water solubility	110 g/l at 20 °C
Partition coefficient: n-Octanol/water	not applicable
Evaporation rate	no data available

## 10. Stability and reactivity

Conditions to avoid  
Strong heating

Materials to avoid  
Increased reactivity with:  
Aluminium, in powder form, heat.  
Magnesium, heat

Risks of explosion with:  
Sodium, acetylidene

Hazardous decomposition products  
In the event of fire, see chapter 5.

## 11. Toxicological information

*Acute oral toxicity*  
LD<sub>50</sub> rat  
Dose: 6.600 mg/kg  
(RTECS)

*Further information*  
After uptake of large quantities:  
Symptoms in:  
Gastrointestinal tract

Handle in accordance with good industrial hygiene and safety practice.

## 12. Ecological information

Ecotoxicity  
*Toxicity to fish*  
LC<sub>50</sub>  
Species: Pimephales promelas (fathead minnow)  
Dose: 680 mg/l  
Exposure time: 96 h  
(ECOTOX database)

*Toxicity to daphnia and other aquatic invertebrates.*



EC<sub>50</sub>

Species: Daphnia Magna (Water flea)

Dose: 890 mg/l

Exposure time: 48 h

(IUCLID)

*Toxicity to algae*

IC<sub>50</sub>

Species. Desmodesmus subspicatus (green algae)

Dose: 2,900 mg/l

Exposure time: 72 h

(IUCLID)

*Partition coefficient: n-octanol/water*

Not applicable

*Additional ecological information*

Do not allow to enter waters, waste water, or soil

### **13. Disposal considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

### **14. Transport information**

No classified as dangerous in the meaning of transport regulations.

### **15. Regulatory information**

GHS-Labeling

Not dangerous substance according to GHS

CAS-No. 7778-80-5

Labelling according to EC Directives

The product does not need to be labeled in accordance with EC directives or respective national laws.

EC-No. 231-915-5

### **16. Other information**



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The information accumulated here in is believed to be accurate but is not warranted to be whether originating with the company or not.

Health and safety data sheet should be used only as a guide to the safe handling of the product, and is not intended as a technical specification.

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