



## Safety Data Sheet

### Potassium Sulfate

Revision Date: March 19, 2021

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Document No.: DIM-SDS-002-004

#### Section 1: Identification of the substance/mixture and of the supplier

##### 1.1 Product identifier

Product name : Potassium Sulfate  
 Chemical name : Potassium Sulfate  
 Trade name : Sulfate of Potash 0-0-50  
 Product type : Solid white, powder  
 CAS Registry no.: : 7778-80-5

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

Identified uses: : Fertilizer, Specialty Industrial Uses

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

Company: International Chemical Industries, Inc.  
 KM 32 McArthur Highway, Tuktukan  
 Guiguinto, Bulacan 3015

Telephone: +6344-794-0444/45

Fax: +6344-794-4104

Toll free: 1-800-1888-6800

##### 1.4 Emergency telephone number

Emergency: +6344-794-0444/45

#### Section 2: Hazards identification

##### 2.1 Classification of the substance/mixture

Classification according to GHS: not classified

##### 2.2 Label elements

Labelling according to GHS: No GHS labeling applicable

Pictograms: None

Signal Word: None

Hazard Statements: The substance does not meet the criteria for classification

##### 2.3 Other hazards

No data available.

#### Section 3: Composition/information on ingredients

##### 3.1 Substances

Potassium Sulfate  
 Concentration: :90-100%  
 Chemical Formula: :K<sub>2</sub>SO<sub>4</sub>  
 Molecular Weight: 174.26 g/mol  
 CAS Registry no.: : 7778-80-5

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## Section 4: First aid measures

### 4.1 Description of first aid measures

General Advice:	Show this data sheet to the doctor in attendance.
Inhalation:	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention
Skin Contact:	Remove all contaminated clothing and shoes. Wash affected area gently and thoroughly with warm water (use non-abrasive soap if necessary). If irritation develops seek immediate medical attention.
Eye Contact:	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes while holding eyelids open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Seek medical attention if irritation develops.
Ingestion:	If person is conscious, rinse mouth thoroughly with water immediately and give water to drink. DO NOT induce vomiting. Seek medical attention immediately if there is pain or difficulty with swallowing.
Chronic Exposure	Not expected to be a health hazard No adverse health effects expected

### 4.2 Most important symptoms and effects, both acute and delayed

Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness and discomfort.

### 4.3 Indication of any immediate medical attention and special treatment needed.

Treat patient symptomatically.

## Section 5: Fire fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire

#### Suitable extinguishing media

No information available

### 5.2 Special hazards arising from the substance or mixture

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes

#### Hazardous combustion products

In case of fire may liberate: sulphur oxides (SO<sub>x</sub>)

### 5.3 Advice for firefighters

Firefighters should wear full protective clothing including self-contained breathing

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apparatus. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out.

#### 5.4 Further information

No data available.

### Section 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear a dust mask if dust is generated above exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material.

#### 6.2 Environmental precautions

Should not be released into the environment.

#### 6.3 Methods and materials for containment and cleaning up

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

#### 6.3 Reference to other sections

For personal protection, see section 8.

For disposal, see section 13.

### Section 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid breathing dust. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment. Use good industrial hygiene practices in handling this material.

Wash thoroughly after handling

#### 7.2 Conditions for handling, including any incompatibilities

Guard against dust accumulation of this material. Store in a well-ventilated place. Store in a closed container. Keep out of reach of children.

### Section 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limits:	No exposure limits noted for ingredients
Biological limit values:	No biological exposure limits noted for the ingredients

#### 8.2 Exposure controls

##### Appropriate engineering controls

Ensure adequate local and/or general exhaust ventilation to avoid high dust concentration.

##### Personal protective equipment

##### Eye/face protection

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Wear appropriate protective eyeglasses or chemical safety goggles.

#### **Skin protection**

Prevent skin contact by wearing long sleeves, pants, suitable gloves (Nitrile rubber).  
Make sure that all skin areas are covered.

#### **Respiratory protection**

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator may be worn.

### **Section 9: Physical and chemical properties**

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

<b>State</b>	:Solid
<b>Appearance</b>	:White powder solid
<b>Odor</b>	:Odorless
<b>Boiling Point</b>	:1689°C at 100kPa
<b>Melting Point</b>	:1067°C
<b>Vapor Density</b>	:Not available
<b>Vapor Pressure</b>	:No information found
<b>Solubility In Water</b>	:Soluble
<b>Flammability:</b>	:Not flammable

### **Section 10: Stability and reactivity**

#### **10.1 Reactivity**

May react with the following components: Aluminum. Magnesium

#### **10.2 Chemical stability**

Stable under recommended storage conditions

#### **10.3 Possibility of hazardous reactions**

Hazardous polymerization does not occur.

#### **10.4 Conditions to avoid**

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Do not mix with other chemicals.

#### **10.5 Incompatible materials**

None when used and stored according to label directions.

#### **10.5 Hazardous decomposition products**

May include and are not limited to: Oxides of sulfur. Oxides of potassium.

### **Section 11: Toxicological information**

#### **11.1 Information on toxicological effects**

##### **Acute toxicity**

Oral LD50=6600 mg/kg (Rat)

Dermal LD50>2000 mg/kg (Rat)

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**Acute inhalation toxicity**

Not listed

**Skin corrosion/irritation**

Not listed

**Serious eye damage/eye irritation.**

Not listed

**Mutagenic Effects**

Not classified

**Carcinogenic Effects**

Not classified

**Reproductive Effects**

Not classified

**Specific target organ toxicity (STOT) - Single Exposure**

None known

**Specific target organ toxicity (STOT) – Repeated Exposure**

None known

## Section 12: Ecological information

**12.1 Ecotoxicity**

Not available

**12.2 Persistence and degradability**

Not available

**12.3 Bioaccumulative potential**

Not available

**12.4 Mobility in soil**

Not available

**12.4 Other adverse effects**

No other adverse environmental effects

## Section 13: Disposal considerations

**13.1 Waste treatment methods**

**Disposal Instruction**

Dispose of in accordance with all government and local regulations. Can be considered as non-hazardous

**Product/ waste residue**

Waste residue should be taken to an approved waste handling site for recycling or disposal.

**Contaminated packaging**

Empty packaging should be taken to an approved waste handling site for recycling or disposal.

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**Section 14: Transport information****14.1 UN number**

Not subject to transport regulations

**14.2 UN proper shipping name**

Not relevant

**14.3 Transport hazard class(es)**

Not relevant

**14.4 Packing group**

Not relevant, not assigned to a packing group

**14.5 Environmental hazards**

None

**14.6 Transport in bulk according to Annex II of MARPOL and the IBC Code**

The cargo is not intended to be carried in bulk

**14.7 Special precautions for user**

There is no additional information

**Section 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not listed

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out for this substance.

**Section 16: Other information****NFPA rating**

Health: 1

Flammability: 0

Reactivity: 0

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