



Safety Data Sheet

Potassium Sulfate

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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%
K₂O : 50% (min)
K : 41.5% (min)
Chemical Formula: : K₂SO₄
Molecular Weight: 174.26 g/mol
CAS Registry no.: : 7778-80-5

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_x)

5.3 Advice for firefighters

Firefighters should wear full protective clothing including self-contained breathing 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.

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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**

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**

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

Acute inhalation toxicity

Not listed

Skin corrosion/irritation

Not listed

Serious eye damage/eye irritation.

Not listed

Mutagenic Effects

Not classified

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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.

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