



SAFETY DATA SHEET

POTASSIUM SULFATE

Product No: 005/03-US

Section 1 : Identification of the Substance and of the Company

Product Name	: Potassium Sulfate
Use of the product	: Product for the agriculture according to technical data sheet
Supplier	: SQM Northamerica Corporation
Address	: 3101 Towercreek Parkway, Suite 450 Atlanta, GA 30339
Telephone	: (770) 916 9400
Fax	: (770) 916 9401
e-mail	: product_safety@sqm.com

Section 2 : Hazards Identification

Emergency Overview

Avoid contact and inhalation.

NFPA Ratings

Health	: 1
Flammability	: 0
Reactivity	: 0
Special	: none

Potential Health Effects

Inhalation	: Inhalation of dust may irritate the respiratory tract. Symptoms may include coughing.
Ingestion	: Ingestion of large amounts may cause gastroenteritis and abdominal pain.
Skin Contact	: May cause irritation.
Eye Contact	: May cause irritation, eye redness, itching and pain.

Section 3 : Composition/Information on Ingredients

Chemical Name	: Potassium Sulfate
CAS No.	: 7778 – 80 – 5
EINECS No.	: 231 – 915 – 5
Molecular Weight	: 174.2
Formula	: K ₂ SO ₄

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Section 4 : First Aid Measures

General Information

In case of persisting adverse effects consult a physician.

Specific Measures

- | | | |
|--------------|---|---|
| Inhalation | : | Remove to fresh air. Get medical attention for any breathing difficulty. |
| Ingestion | : | Induce vomiting. Never give anything by mouth (oral) to an unconscious person. |
| Skin Contact | : | In case of irritation, remove clothing. Wipe excess from skin. Wash with soap and water for at least 5 minutes. |
| Eye Contact | : | Flush eyes with plenty of water, lifting lower and upper eyelids occasionally. |

Section 5 : Firefighting Measures

- | | | |
|------|---|---|
| Fire | : | Non combustible. May emit toxic fumes under fire conditions. See Section 10 for hazardous thermal decomposition products. |
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Extinguishing Media

- | | | |
|------------|---|---|
| - Suitable | : | Any mean suitable for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water. Carbon dioxide, dry chemical powder, or appropriate foam are also suitable. |
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- | | | |
|----------------|---|---|
| - Not Suitable | : | - |
|----------------|---|---|

Protective equipment: Refer to section 8.

Section 6 : Accidental Release Measures

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|-----------------------------------|---|---|
| Personal Precautions | : | Ventilate the area. Use personal protective equipment (Section 8). |
| Environmental Precautions: | : | Do not discharge into drains. Avoid surface and ground water contamination. |
| Methods for Cleaning Up/Taking Up | : | Pick up the product mechanically and store in suitable containers for recovery or disposal. |





Section 7 : Handling and Storage

Handling

Special Procedures : None

Safe Handling Procedures : Minimize dust generation. Avoid contact with eyes and skin.

Special Advices : Does not present any known incompatibility.

Storage

Special Requirements : Reseal carefully any opened container and set upright to avoid leakages. Keep the product in the original containers.

Storage Conditions : Keep away from flammable substances. Do not store with combustibles reducing agents. Keep containers tightly closed in well ventilated and cool place.

Section 8 : Exposure Controls / Personal Protection

Exposure Limits

Suggested according to US regulations : 15 mg/m³ (total dust) ; 5 mg/m³ (respirable fraction)

Exposure Controls

Local exhaust ventilation to keep low dust environment.

Personal Protective Equipment

Respiratory : Dust mask

Eyes : Safety goggles required all the time.

Hands : Nitrile rubber gloves, over 0.11 mm thickness, > 480 min breakthrough time.

Hygiene Measures

Do not drink, eat or smoke during product manipulation. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

Personal Protective Equipment : Wear dust mask if necessary, nitrile rubber gloves and chemical safety goggles.

Hygiene Measures : Do not drink, eat or smoke during product manipulation. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.





Section 9 : Physical and Chemical Properties

Physical Form	: Solid, granular or crystalline
Colour	: White (crystalline) ; tan (granular)
Odour	: Odourless
pH	: 4.5 – 7.5 (5% aqueous solution)
Melting Point	: 1069 °C
Boiling Point	: 1989 °C
Flash Point	: not applicable
Flammability	: not flammable
Explosive Properties	: not applicable
Specific Gravity	: 2.66 g/mL
Water Solubility	: 111 g/L (20 °C)
Partition Coefficient (log Pow)	: not applicable

Section 10 : Stability and Reactivity

Stability	: Stable under normal storage and temperature conditions.
Conditions to avoid	: Metals and strong reducing agents.
Hazardous	
Decomposition Products	: Sulfur oxides fumes by extreme heating.

Section 11 : Toxicological Information

Acute Data

Oral LD₅₀ (rat) : 6600 mg/Kg
Dermal LD₅₀ (rat) : no data available.
Inhalation LC₅₀ (rabbit): no data available.

Short-term Effects

Inhalation may cause irritation of the respiratory tract. Can cause skin and eye irritation.

Chronic Effects

To the best of our knowledge, chronic effects have not been described for this substance.





Section 12 : Ecological Information

General

Do not discharge into drains and water or public depositories.

Environmental Fate

Dissociates into potassium and sulfate ions. Both ions are essential nutrients to plants.

Zooplankton Toxicity

Species : *Daphnia magna*

LC₅₀ 720 mg/L (48 h)

Fish Toxicity

Species: Fathead minnow

LC₅₀ 680 mg/L (96 h)

Not acutely toxic to aquatic organisms.

Mobility

No data available

Section 13 : Disposal Considerations

Residues : Licensed professional waste disposal service is required. Disposal of waste according to all federal, state and local regulations. See also Section 14.

Empty Packaging : Empty containers may be reused after appropriate cleansing. Packaging that can not be cleaned should be disposed in agreement with the regional waste disposal company.

Section 14 : Transport Information

Rail & Road (DOT) – Sea (IMDG Code) – Air (IATA)

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

Section 15 : Regulatory Information

US Classification

Indication of Danger : None

Risk statements : None

Safety Statements : Avoid contact and inhalation





SARA	Not listed
TSCA	Listed
California Prop. 65	Not listed

Section 16 : Other Information

This MSDS complies with 29 CFR part 1910 subpart Z and ANSI Standard Z400.1-2004.

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