



# SAFETY DATA SHEET

## POTASSIUM SULFATE

Product No: 005/03-US

### Section 1 : Identification of the Substance and of the Company

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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

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#### 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

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Chemical Name : Potassium Sulfate  
CAS No. : 7778 – 80 – 5  
EINECS No. : 231 – 915 – 5  
Molecular Weight : 174.2  
Formula :  $K_2SO_4$

**SQM Northamerica**  
3101 Towercreek Parkway, Suite 450  
Atlanta, GA 30339  
Tel : (770) 916 9400  
Fax : (770) 916 9400  
[www.sqm.com](http://www.sqm.com)

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## Section 4 : First Aid Measures

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### 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

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

### 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.

- 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

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### 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

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### Exposure Limits

Suggested according to US regulations : 15 mg/m<sup>3</sup> (total dust) ; 5 mg/m<sup>3</sup> (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

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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

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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

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### Acute Data

Oral LD<sub>50</sub> (rat) : 6600 mg/Kg  
Dermal LD<sub>50</sub> (rat) : no data available.  
Inhalation LC<sub>50</sub> (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

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### 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

LC<sub>50</sub> 720 mg/L (48 h)

#### Fish Toxicity

Species: Fathead minnow

LC<sub>50</sub> 680 mg/L (96 h)

Not acutely toxic to aquatic organisms.

### Mobility

No data available

## Section 13 : Disposal Considerations

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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

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### 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

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### 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

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

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall SQM be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if SQM has been advised of the possibility of such damages.

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