



Section 1. Product and Company Identification

Product Name Potassium Sulfate
CAS Number 7778-80-5

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
☎ (914) 654-6800 ☎ (914) 654-6899
🌐 parchem.com ✉ info@parchem.com

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008): Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC): This substance is not classified as dangerous according to Directive 67/548/EEC.

GHS Label Elements

Pictograms: N/A

Signal word: N/A

Hazard and precautionary statements

None

Label Elements

Labelling (REGULATION (EC) No 1272/2008): Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Labelling according to EC Directives

Further information: The product does not need to be labelled in accordance with EC directives or respective national laws.

Other Hazards

This substance is not considered to be persistent, bioaccumulating, nor toxic (PBT).

This substance is not considered to be very persistent nor very bioaccumulating, (vPvB).



Section 3. Composition / Information on Ingredients

Common Name Potassium Sulfate
Formula K_2SO_4
CAS Number 7778-80-5

COMPONENT	CAS NUMBER	CONCENTRATION
Potassium Sulfate	7778-80-5	> 99%

Section 4. First Aid Measures

Description of First-aid Measures

General Advice: When symptoms persist or in all cases of doubt seek medical advice.

Inhalation: If breathed in, move person into fresh air.

Skin Contact: Rinse with water.

Eye Contact: Immediately flush eye(s) with plenty of water.

Ingestion: Clean mouth with water and drink afterwards plenty of water.

Most important Symptoms and Effects, both Acute and Delayed

Symptoms: No information available.

Indication of any immediate Medical Attention and Special Treatment Needed

Treatment: For specialist advice physicians should contact the Poisons Information Service.

Section 5. Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: None

Special Hazards arising from the Substance or Mixture

Specific Hazards during Firefighting: Heating or fire can release toxic gas sulfur oxides.

Advice for Firefighters

Special Protective Equipment for Firefighters: Respiratory protection

Further Information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions: Avoid breathing dust.

Environmental Precautions: Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up

Methods for Cleaning Up: Sweep up and shovel into suitable containers for disposal.
After cleaning, flush away traces with water.

Section 7. Handling and Storage

Precautions for Safe Handling

Advice on Safe Handling: Avoid dust formation. No special precautions required.

Advice on protection against Fire and Explosion: The product is not flammable. No special protective measures against fire required.

Conditions for Safe Storage, including any Incompatibilities

Requirements for Storage Areas and Containers: Keep in a dry place.

Advice on Common Storage: No special restrictions on storage with other products.

German Storage Class: 13 Non Combustible Solids

Other Data: Stable under recommended storage conditions.

Section 8. Exposure Controls / Personal Protection

Control Parameters

DNEL

End Use: Workers

Exposure Routes: Skin contact

Potential Health Effects: Chronic effects

Value: 21.3 mg/kg

DNEL

End Use: Workers

Exposure Routes: Inhalation

Potential Health Effects: Chronic effects

Value: 37.6 mg/m³

DNEL

End Use: Consumers

Exposure Routes: Skin contact

Potential Health Effects: Chronic effects

Value: 12.8 mg/kg

DNEL

End Use: Consumers

Exposure Routes: Inhalation

Potential Health Effects: Chronic effects



Value: 11.1 mg/m³

DNEL

End Use: Consumers

Exposure Routes: Ingestion

Potential Health Effects: Chronic effects

Value: 12.8 mg/kg

PNEC: Fresh Water

Value: 0.68 mg/L

PNEC: Marine Water

Value: 0.068 mg/L

PNEC: Ceiling Limit Value

Value: 6.8 mg/L

Exposure Controls

Engineering Measures: Provide adequate ventilation.

Personal Protective Equipment

Respiratory Protection: Effective dust mask.

Hand Protection: Not required under normal use

Eye Protection: No special protective equipment required.

Skin and Body Protection: No special protective equipment required.

Wear suitable protective clothing.

Hygiene Measures: When using do not eat or drink. Wash hands before breaks and at the end of workday.

Protective Measures: No special precautions required. Do not breathe dust.

Environmental Exposure Controls

General Advice: Do not let product enter drains.

Section 9. Physical and Chemical Properties

Appearance: Crystalline

Color: White

Odor: Very faint

pH: Approx. 6, 25°C, Aqueous solution

Melting Point/Range: 1.069 °C

Flash Point: Not applicable

Density: 2.66 g/cm³

Water Solubility: 108 g/L, 20°C

Auto-ignition Temperature: None



Thermal Decomposition: > 700°C

Explosive Properties: None

Oxidizing Properties: None

Bulk Density: Approx. 1.400 kg/m³

Section 10. Stability and Reactivity

Reactivity: Stable

Chemical Stability: No decomposition if stored and applied as directed.

Possibility of Hazardous Reactions

Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Conditions to Avoid: None known.

Incompatible Materials

Materials to Avoid: None known.

Hazardous Decomposition Products: No decomposition if stored and applied as directed.

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Oral Toxicity: LD50: > 2000 mg/kg, rat, OECD 425

Acute Inhalation Toxicity: LC50: > 1.2 mg/L, OECD Guideline 433

Acute Dermal Toxicity: LD50: > 2.000 mg/kg, rat, OECD Test Guideline 402

Skin Corrosion/Irritation: Result: No skin irritation, EU Method B.46

Serious Eye Damage/Eye Irritation: Rabbit, Result: No eye irritation, OECD Test Guideline 405

Respiratory or Skin Sensitization: Result: Does not cause skin sensitization. OECD Guideline 429

Germ Cell Mutagenicity

Genotoxicity in Vitro: Result: negative, Mutagenicity (Escherichia coli - reverse mutation assay)

Genotoxicity in Vivo: No data available

Assessment: Not mutagenic in Ames Test.

Carcinogenicity: Rat, OECD Test Guideline 453.

Did not show carcinogenic or mutagenic effects in animal experiments.

Reproductive Toxicity: Rat, NOAEL: ≥ 1500 mg/kg, OECD Guideline 422

Assessment: Animal testing did not show any effects on fertility.

Teratogenicity: Rat, NOAEL: ≥ 1500 mg/kg, OECD Guideline 422

Assessment: Did not show mutagenic or teratogenic effects in animal experiments.

STOT - Repeated Exposure: Rat, Oral, NOAEL: 256 mg/kg, OECD Test Guideline 453

Further Information: Health injuries are not known or expected under normal use.

Section 12. Ecological Information

Toxicity to Fish: LC50: 680 mg/L, 96 h, Pimephales promelas (fathead minnow), USEPA 1991 EPA/600/4-90/027

Toxicity to Daphnia and other Aquatic Invertebrates: LC50: 720 mg/L, 48 h, Daphnia magna (Water flea), USEPA 1991 EPA/600/4-90/027

Toxicity to Algae: EC50: 2.700 mg/L, 18 DAY, Chlorella vulgaris (Fresh water algae)

Toxicity to Bacteria: EC20: > 20 g/L, 16 h, Pseudomonas putida, DIN 38412

Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative Potential

Bioaccumulation: Bioaccumulation is unlikely.

Mobility in Soil

Mobility: Not applicable

Distribution among Environmental Compartments: Not applicable

Physico-Chemical Removability: Not applicable

Results of PBT and vPvB assessment

Assessment: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Other Adverse Effects

Adsorbed Organic Bound Halogens (AOX): Not applicable

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Land Transport

ADR Remarks: Not a dangerous substance as defined in the above regulations.

Tunnel Restriction Code: Not relevant

Sea Transport

ADNR Remarks: Not classified as dangerous in the meaning of transport regulations.

IMDG Remarks: Not classified as dangerous in the meaning of transport regulations.



Air Transport

IATA-DGR Remarks: Not classified as dangerous in the meaning of transport regulations.

Special Precautions for User: Not relevant

Section 15. Regulatory Information

Safety, Health, and Environmental Regulations/Legislation specific for the Substance or Mixture

Water Contaminating Class (Germany): WGK 1 slightly water endangering

Notification Status

REACH: This substance has been registered according to Regulation (EC) No. 1907/2006 (REACH).

Chemical Safety Assessment: A Chemical Safety Assessment has been carried out for this substance.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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