



# SULFATE OF POTASH

Safety Data Sheet according to OSHA-GHS (29 CFR part 1910.1200 HCS 2012)

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sulfate of Potash  
 Recommended Use: Consumer end-use fertilizers  
 Synonyms: Potassium sulfate  
 Company: Southern Agricultural Insecticides, Inc  
 P.O. Box 218  
 Palmetto, FL 34220  
 (941) 722-3285 Chemtrec (800) 424-9300 (24 hour transportation spill response)

## 2 HAZARD IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §191 0.1200;

Not classified as hazardous

Label elements	None applicable	Hazard Statements	None applicable
Hazard pictograms	None applicable	Precautionary Statement	None applicable
Signal word	None applicable	Other hazards	None

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.  
 No known OSHA hazards.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	%
Potassium Sulfate	7778-80-5	50

## 4. FIRST AID MEASURES

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest. Call a Poison Center or doctor/physician if you feel unwell.  
 Eyes: In case of contact with eyes, rinse immediately with plenty of water. Remove contacts.  
 If eye irritation occurs seek medical advice.  
 Ingestion: If swallowed, do not induce vomiting: Rinse mouth and drink plenty of water.  
 Seek medical advice immediately and show this container or label if you feel unwell.

## 5. FIREFIGHTING PROCEDURES

Extinguishing Media: Use media suitable to extinguish surrounding fire.  
 Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
 Fire and/orExplosion Hazards: N/A  
 Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Provide adequate ventilation. Wear personal protection equipment  
**Environmental precautions:** Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

**Methods for containment and cleaning up:** Take up mechanically, placing in appropriate containers for disposal or recovery. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum.

## 7. HANDLING AND STORAGE

**Handling:** Keep container tightly closed in a cool, well-ventilated place. Avoid creating and inhaling dust. Avoid creating and inhaling spray or mist.

**Storage:** Keep container tightly closed in a cool, well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Potassium Sulfate	N/A	N/A	N/A	N/A

### Control Parameters:

#### Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

#### Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

#### Respiratory Protection:

No respiratory protection required under normal conditions of use.

#### Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station available.

#### Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

#### Gloves:

No information available

## 9. PHYSICAL DATA

**Molecular Weight:** 174.27

**Appearance:** Solid granula or crystalline

**Colour:** White (crystalline), tan (granular)

**Odor:** Odourless

**Odor Threshold:** Not applicable

**pH:** 4.5-8.5 (5% aqueous solution)

**Melting Point/freezing point:** 1067°C/1953°F at 1013 hPa

**Flash Point:** Not applicable

**Flammability:** Not applicable

**Explosion limits (LEL, UEL)** Not applicable

**Vapor Pressure:** Not applicable

**Evaporation Rate (BuAc=1):** Not applicable

**Vapor Density (Air=1):** No data available

**Specific Gravity:** 2.66

**Solubility in Water:** Soluble

**Log Pow (calculated):** No data available

**Autoignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Viscosity:** No data available

**Oxidizing properties:** Not oxidizing

## 10. STABILITY AND REACTIVITY

**Reactivity:** No hazardous reaction when handled and stored according to directions

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** None known.

**Hazardous Polymerization:** Will not occur

## 11. TOXICITY DATA

**Routes of Entry:** Inhalation, ingestion, eye or skin contact.

**Symptoms (Acute):** Respiratory disorders

**Delayed Effects:** No data available

**Acute Toxicity:**

Potassium Sulfate	<b>CAS Number</b> 7778-80-5	<b>Oral LD50</b> Oral L050 GUINEA PIG 6600 mg/kg Oral L050 Rat 6600 mg/kg Oral L050 Mouse 6600 mg/kg	<b>Dermal LD50</b> Not determined	<b>Inhalation LC50</b> Not determined
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**Carcinogenicity:**

<b>Chemical Name</b> Potassium Sulfate	<b>CAS Number</b> 7778-80-5	<b>IARC</b> Not listed	<b>NTP</b> Not listed	<b>OSHA</b> Not listed
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**Chronic Effects:**

<b>Mutagenicity:</b>	No evidence of a mutagenic effect.
<b>Teratogenicity:</b>	No evidence of a teratogenic effect (birth defect).
<b>Sensitization:</b>	No evidence of a sensitization effect.
<b>Reproductive:</b>	No evidence of negative reproductive effects
<b>Target Organ Effects:</b>	
<b>Acute:</b>	See Section 2
<b>Chronic:</b>	No data available

**12. ECOLOGICAL DATA**

<b>Overview:</b>	This material is not expected to be harmful to the ecology.
<b>Mobility:</b>	Based on the high water solubility and the ionic nature, potassium sulphate is not expected to adsorb, however, due to ion exchange process, sulfates can be retained in soil, both by incorporation into organic matter and adsorbed to soil particles such as hydrous iron and aluminum sesquioxides.

**Persistence**

<b>and Degradability:</b>	In aqueous solution, potassium sulphate is completely dissociated into the potassium ion (K <sup>+</sup> ) and the sulfate anion (SO <sub>4</sub> <sup>2-</sup> ). Hydrolysis of potassium sulfate does not occur.
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<b>Bioaccumulation:</b>	Potassium sulfate completely dissociate in water forming potassium ions and sulfate anions. Potassium sulfate has a low potential for bioaccumulation based on physicochemical properties.
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<b>Other Adverse Effects:</b>	No data
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<b>Potassium Sulfate</b>	<b>CAS Number</b> 7778-80-5	<b>Eco Toxicity</b> 96 HR LC50 LEPOMIS MACROCHIRUS 653 MG/L 96 HR LC50 LEPOMIS MACROCHIRUS 3550 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 890 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS 2900 MG/L
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**13. DISPOSAL INFORMATION**

<b>Disposal Methods:</b>	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Potassium sulfate is not listed as a dangerous waste in Resource Conservation and Recovery Act (RCRA) 40 CFR 261
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**14. TRANSPORTATION INFORMATION**

<b>Ground - DOT Proper Shipping Name:</b> N/A	<b>Air -IATA Proper Shipping Name:</b> Not regulated for air transport by IATA.
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**15. REGULATORY INFORMATION**

**TSCA Status:** All components in this product are on the TSCA Inventory.

<b>CAS Number</b> 7778-80-5	<b>§ 313 Name</b> No	<b>§ 304 RQ</b> No	<b>CERCLA RQ</b> No	<b>§ 302 TPQ</b> No	<b>CAA 112(2) TQ</b> No
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**16. ADDITIONAL INFORMATION**

The information provided here represents a compilation of data drawn directly from various sources. Southern Agricultural Insecticides, Inc. makes no representation or guarantee as to the suitability of this information and assume no liability.