

# SAFETY DATA SHEET

## SULPHATE OF POTSASH (SOP)



In compliance with Regulation (EC) No 1907/2006 concerning the registration, evaluation, authorization and restriction of Chemicals (REACH) and following amendments.

### 1. Product and Company Identification

<b>Product Name</b>	<b>Sulphate of Potash</b>
<b>Other Names</b>	Sulfate of Potash, Potassium Sulphate, Di-Potassium Sulphate
<b>CAS No</b>	7778-80-5
<b>EC No</b>	231-915-5
<b>REACH Registration No.</b>	1-2119490860-33-0003
<b>Product use</b>	Specialty crop nutrient, turf grass fertilizer, general fertilizer uses, and specialty industrial uses
<b>Manufacturer</b>	Archean Chemical Industries Limited Greater Rann of Kutch, Near Hajjpir, Taluka: Bhuj, Dist. Kutch - 370 605, Gujarat, India. Phone - +91 2836 - 234259 / 234158 / 233841
<b>Contact in Emergency</b>	Mr. Vijaya Raghavan- +91 94440 10241 vijayaraghavan@archeanchemicals.com

### 2. Hazards Identification

<b>Emergency Overview</b>	Contact may cause Eye and Skin Irritation, Potential short term health effects
<b>Routes of exposure</b>	Eye, Skin contact, Inhalation, Ingestion
<b>Eyes</b>	May cause irritation.
<b>Skin</b>	May cause irritation.
<b>Inhalation</b>	Dusts of this product may cause irritation of the nose, throat, and respiratory tract
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Target organs</b>	Eyes. Skin. Respiratory system
<b>Chronic effects</b>	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
<b>Signs and symptoms</b>	Symptoms may include redness, edema, drying, defatting and cracking of the skin.  Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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<b>OSHA Regulatory Status</b>	This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
<b>Potential environmental effects</b>	See section 12.

### 3. Composition / Information on Ingredients

<b>Ingredient(s)</b>	<b>CAS No</b>	<b>Percent</b>
Potassium sulphate	7778-80-5	95 – 100

### 4. First Aid Measures

#### First aid procedures

<b>Eye contact</b>	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
<b>Skin contact</b>	Brush away excess of dry material. Flush with cool water. Wash with soap & water. Obtain medical attention if irritation persists
<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
<b>Notes to physician</b>	Symptoms may be delayed.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

### 5. Fire Fighting Measures

<b>Flammable properties</b>	Not flammable by WHMIS/OSHA criteria.
<b>Extinguishing media</b>	Treat for surrounding material.
<b>Suitable extinguishing media</b>	
<b>Unsuitable extinguishing media</b>	Not available

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<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for the Fighters</b>	Fire fighters should wear full protective clothing including self-contained breathing apparatus
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of sulphur.
Explosion data	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

### 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for containment</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	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.

### 7. Handling and Storage

<b>Handling</b>	Use good industrial hygiene practices in handling this material. Avoid breathing dust. Wash thoroughly after handling.
<b>Storage</b>	Keep out of reach of children. Store in a closed container away from incompatible materials.

### 8. Exposure Controls / Personal Protection

Exposure limits

<b>Ingredient(s)</b>	<b>Exposure Limits</b>
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Potassium sulfate	ACGIH-TLV	Not established
	OSHA-PEL	Not established

### Personal protective equipment

<b>Eye / face protection</b>	Wear safety glasses with side shields.
<b>Hand protection</b>	Rubber gloves. Confirm with a reputable supplier first.
<b>Skin and body protection</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator or NIOSH-approved filtering face piece.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

<b>Appearance</b>	Solid
<b>Form</b>	Powder or Crystals or Granular
<b>Odour</b>	Odourless
<b>Odour threshold</b>	Not available
<b>Physical state</b>	Solid
<b>pH</b>	7 (10% solution)
<b>Melting point</b>	1956.20 °F (1069 °C)
<b>Freezing point</b>	1952.60 °F (1067 °C)
<b>Boiling point</b>	3072.20 °F (1689 °C)
<b>Pour point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	None
<b>Auto-ignition temperature</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not applicable
<b>Flammability limits in air, upper, % by volume</b>	Not applicable
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	2.66 @21°C (H2O = 1)
<b>Relative density</b>	2.662 g/cm <sup>3</sup>
<b>Solubility (H2O)</b>	Appreciable

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<b>Molecular weight</b>	174.2700
<b>Molecular formula</b>	K <sub>2</sub> SO <sub>4</sub>

### 10. Stability and Reactivity

<b>Reactivity</b>	Not known
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur
<b>Chemical stability</b>	Stable under recommended storage conditions
<b>Conditions to avoid</b>	Do not mix with other chemicals
<b>Incompatible materials</b>	Magnesium, Aluminium
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of sulphur

### 11. Toxicological Information

#### Component analysis - LC50

<b>Ingredient(s)</b>	<b>LC50</b>
Potassium sulphate	Potassium sulphate

#### Component analysis - Oral LD50

Potassium sulphate	6600 mg/kg rat
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Effects of acute exposure

<b>Eye</b>	May cause irritation
<b>Skin</b>	May cause irritation
<b>Inhalation</b>	Dusts of this product may cause irritation of the nose, throat, and respiratory tract
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting
<b>Sensitization</b>	Non-hazardous by WHMIS/OSHA criteria
<b>Chronic effects</b>	Non-hazardous by WHMIS/OSHA criteria
<b>Carcinogenicity</b>	Not classified or listed by IARC, NTP, OSHA and ACGIH
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria
<b>Reproductive effects</b>	Non-hazardous by WHMIS/OSHA criteria
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria
<b>Name of Toxicologically Synergistic Products</b>	Not available

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### 12: Ecological information

**Environment** It is not anticipated to cause any adverse effects to plants or animals

### 13. Disposal Considerations

**Disposal instructions** Waste must be disposed of in accordance with federal, state/provincial and local environmental control regulations.

**Waste from residues / unused products** Not available

**Contaminated packaging** Not available

### 14. Transport Information

**Land Transportation** Not listed in the hazardous materials shipping regulations (49 CFR, Table 172.101) by the U.S. Department of Transportation, or in the Transport of Dangerous Goods (TDG) Regulations Canada.

**Sea transportation** Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

**Air transportation** Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON DANGEROUS GOODS.

### 15. Regulatory Information

This product is considered non-hazardous under OSHA Hazard Communication standard (29CFR 1910-1200)

Potassium Sulphate is not included in the consolidated version of the Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

This information relates solely to the designated product and is not inclusive for combinations with other materials. This information is given without warranty or representation. Information is based on data we believe to be correct as of the date hereof. This information is furnished solely for your consideration, investigation, and verification. Before using any product READ THE LABEL.

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### 16: Other Information

<b>References</b>	Not available
<b>Other special Consideration</b>	Not available
<b>MSDS creation date</b>	01 <sup>st</sup> December 2014
<b>Revision</b>	06
<b>Last updated</b>	14 <sup>th</sup> January 2022

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