



Archean Chemical Industries Private Limited

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name	Sulphate of Potash
Other Names	Sulfate of Potash, Potassium Sulphate, Di-Potassium Sulphate
CAS No	7778-80-5
Product use	Specialty crop nutrient, turf grass fertilizer, general fertilizer uses, and specialty industrial uses
Manufacturer	Archean Chemical Industries Private Limited Greater Rann of Kutch, Near Hajipir , Taluka: Bhuj, Dist. Kutch - 370 605, Gujarat, India. Phone - +91 2836 - 234259 / 234158 / 233841
Contact in Emergency	Mr. Subash Kasinathan- +91 91766 13130 / +91 94087 03477 subash@acipl.co

2. Hazards Identification

Emergency Overview	Contact may cause Eye and Skin Irritation, Potential short term health effects
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion
Eyes	May cause irritation.
Skin	May cause irritation.
Inhalation	Dusts of this product may cause irritation of the nose, throat, and respiratory tract
Ingestion	May cause stomach distress, nausea or vomiting.
Target organs	Eyes. Skin. Respiratory system
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
OSHA Regulatory Status	This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition / Information on Ingredients

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

4. First Aid Measures

First aid procedures

Eye contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
Skin contact	Brush away excess of dry material. Flush with cool water. Wash with soap & water. Obtain medical attention if irritation persists
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention
Ingestion	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Notes to physician	Symptoms may be delayed.
General advice	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

Flammable properties	Not flammable by WHMIS/OSHA criteria.
Extinguishing media	Treat for surrounding material.
Suitable extinguishing media	
Unsuitable extinguishing media	Not available
Specific hazards arising from the chemical	Not available
Protective equipment for the Fighters	Fire fighters should wear full protective clothing including self-contained breathing apparatus
Hazardous combustion products	May include and are not limited to: Oxides of sulphur.
Explosion data	

Sensitivity to mechanical impact Not available

Sensitivity to static discharge Not available

6. Accidental Release Measures

Personal precautions 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.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods for containment Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up 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

Handling Use good industrial hygiene practices in handling this material. Avoid breathing dust. Wash thoroughly after handling.

Storage Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits	
Potassium sulfate	ACGIH-TLV	Not established
	OSHA-PEL	Not established

Personal protective equipment

Eye / face protection Wear safety glasses with side shields.

Hand protection Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator or NIOSH-approved filtering face piece.

General hygiene considerations 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

Appearance	Solid
Form	Powder or Crystals or Granular
Odour	Odourless
Odour threshold	Not available
Physical state	Solid
pH	7 (10% solution)
Melting point	1956.20 °F (1069 °C)
Freezing point	1952.60 °F (1067 °C)
Boiling point	3072.20 °F (1689 °C)
Pour point	Not available
Evaporation rate	Not available
Flash point	None
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability limits in air, upper, % by volume	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	2.66 @21°C (H ₂ O = 1)
Relative density	2.662 g/cm ³
Solubility (H₂O)	Appreciable
Molecular weight	174.2700
Molecular formula	K ₂ SO ₄

10. Stability and Reactivity

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

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Potassium sulphate	Potassium sulphate

Component analysis - Oral LD50

Potassium sulphate	6600 mg/kg rat
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Effects of acute exposure

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

12: Ecological information

Environment	It is not anticipated to cause any adverse effects to plants or animals
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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 a dangerous substance as defined in the above regulations
Sea transportation	Not a dangerous substance as defined in the above regulations
Air transportation	Not a dangerous substance as defined in the above regulations



15. REGULATORY INFORMATION

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

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.

16: Other Information

References	Not available
Other special Consideration	Not available
MSDS creation date	01.12.2014
Revision	03
Last updated	29.04.2016

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