

MSDS

Material Safety Data Sheet

POTASSIUM SULPHATE

SECTION 1. Product And Company Identification

Chemical Product

Product Name: POTASSIUM SULPHATE

Company Name: RNZ INTERNATIONAL FZE

Company Address: PO BOX 44660 Dubai UAE

Telephone Number: +9714 8894400

+971 8894940

Emergency Number: +9714 8894400



Composition / Information on substance :

Dipotassium sulfate 96% 7778-80-5
Potassium Chloride < 4% 7447-40-7

Health and Hazard Data:

Sulfate of Potash is not classified as hazardous

DANGEROUS GOODS.

Sulfate of Potash is not classified as a dangerous good

First Aid measures:

1. Swallowed

If person is conscious, rinse mouth thoroughly with water immediately and give water or milk to drink. Induce vomiting if more than a small quantity has been swallowed. Seek medical attention if there is pain, or difficulty with swallowing.

2. Eyes

Flush gently with running water for at least 15 minutes lifting lower and upper eyelids occasionally. Seek medical attention if irritation develops.

3. Skin

Gently flush affected areas with water. Seek medical attention if irritation develops. Remove all contaminated clothing and launder before re-use.

4. Inhalation

If over exposure occurs remove affected person to a well ventilated area. Keep warm and at rest. In emergency situations, if breathing is difficult give oxygen. If the affected person suffers cardiac arrest commence cardio-pulmonary resuscitation immediately. Seek urgent medical attention.



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Fire fighting measures:

Non flammable and does not support combustion.

Suitable extinguishing media

Non flammable and does not support combustion.

Hazard from combustion products

When heated above 1066°C, sulfate of potash may yield toxic oxides of sulfur.

Accidental release measures:

Methods and Materials for containment and clean up

Any spillage should be cleaned up promptly and swept up. Prevent run-off into drains and waterways.

Handling and Storage

Precautions for safe handling

Segregate from food or foodstuffs, oxidizing agents (Class5) and acids (Class 8) when transporting.

Conditions for safe storage, including any incompatibilities

Store in a cool, clean, dry and well ventilated area. Avoid contact with moisture, as it will cause product handling problem.

Store away from oxidizers, acids and from food or drink. Violent explosion occurs when sulfate of potash is melted with aluminum.

Exposure Controls/Personal Protection

National exposure standards

No specific official limit. ACGIH recommended value for inhalable particulates is 10 mg/m³ (TLV/TWA).

Engineering controls

Use in well ventilated areas. Avoid high dust concentration.

Personal protective equipment

Wear rubber or PVC gloves to prevent skin contact. Where dust is a problem use a P2 type canister

Respirator. Wear long sleeves and long trousers to prevent contact. Wear chemical safety glasses to prevent eye contact.

Physical and Chemical Properties

Colourless to white hard crystals or powdered solid.

Odour

Odourless.

pH of 10% solution

3 – 4.

Vapour pressure

Does not exert significant vapour pressure.

Vapour density

Not available.

Boiling point/range Freezing/melting point

1689°C at 100 kPa. 1067°C.

Evaporation rate

Not available.

Solubility

Soluble in water (12g/100g water at 20°C), not soluble in alcohol or acetone.

Specific Gravity / Bulk density

2.66 / 1.03 – 1.20 t/m³.

% Volatiles

Not available.

Flammability

Not Flammable.

Flash point and method of detecting flash point

Not relevant.

Upper and lower flammable (explosive) limits in air

Not relevant.

Ignition temperature

Not available.

Stability & reactivity:

Incompatible with aluminium, magnesium or sodium sulfate and may explode in combination with these at temperatures exceeding 800 °C.

Corrosivity similar to common salt. In the presence of moisture, sulfate of potash is mildly corrosive to cement, mild steel, zinc, and copper.



Toxicological Information

HEALTH EFFECTS

Low toxicity. Use safe work practices to avoid eye or skin contact and dust inhalation. Sulfate of potash is relatively non toxic when ingested in small quantities. Acute potassium intoxication is rare

since the potassium ion tends to cause vomiting. Ingestion of large quantities may cause gastrointestinal irritation.

Inhalation:

High dust concentration of air-borne material may cause irritation to the nose and upper respiratory tract; symptoms may include coughing, shortness of breath and sore throat.

Skin:

Prolonged contact may cause some irritation, including redness and itching. No harmful effects from skin absorption have been recorded.

Eye:

May cause irritation, redness and pain following contact.

Swallowed:

Presents little toxicity, unless large amounts are ingested. Potassium sulfate is slowly absorbed from the alimentary tract. Because of osmotic activity, it will draw water into the lumen of the bowel. Consequently, massive doses exceeding about 100 grams of potassium sulfate give rise to severe gastro-intestinal irritation, with symptoms such as nausea, vomiting, diarrhea, irregular heart beats (arrhythmia), dehydration and hypertension. Smaller doses will likely irritate the mouth, esophagus, stomach, etc.

Ecological information:

Environment

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



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Dispose consideration :

Disposal methods and containers

Dispose of on a farm, or authorised waste facility in accordance with statutory requirements.

Clean up personnel should vacuum or wet sweep to avoid dust dispersal.

Contact the manufacturer if additional information is required.

Legislation

Dispose of in accordance with relevant local legislation.

Transport information:

UN Number

None allocated.

UN Proper shipping name

None allocated.

Class and subsidiary risk

None allocated.

Packing group

None allocated.

EPG

None allocated.

Hazchem code

None allocated.