



Safety Data Sheet

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Section 1 - Product and Company Identification

Product name : Potassium sulfate
Other names : --
Product use : Used as raw material for kali salt, intermediate for dyes, deposit cleaner for glass industry, assistant for perfume and purgative retainer for medicine.
Supplier's name : San Fu Chemical Co., Ltd.
Supplier's address : 340 Hsiao Hsin Li, Shan-Hua District, Tainan City, Taiwan, R.O.C.
Supplier's phone : 886-6-5837608 Emergency phone : 886-6-5837608
FAX. : 886-6-5839498

Section 2 - Hazards Identification

Classification : 1. Skin corrosion / irritation Category 3 2. Serious eye damage/eye irritation Category 2B
The Most Important Hazards and effect Label element : Hazard symbol : Exclamation Mark  Signal word : Warning
Hazard statement : 1. May cause moderate skin irritation 2. May cause eye irritation
Precautionary statement : 1. Wear appropriate protective clothing. 2. In case of contact with eyes, flush with plenty of water, and get medical attention. 3. In case of accident or discomfort, get medical attention immediately
Others Hazard : /

Section 3 - Composition/Information On Ingredients

pure substance :

Chemical name : Potassium sulfate
Synonyms : Sulfuric acid dipotassium salt; sal polychrestum
CAS No. : 7778-80-5
Ingredient contributing to the hazard(%) : 99 %



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Section 4 - First Aid Measures

The First-aid Information :

- Inhalation : Remove to fresh air. Get medical attention for any breathing difficulty.
- Skin Contact : Flush skin with soap and water for at least 15 minutes. Get medical aid if irritation.
- Eye Contact : Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical advice if irritation develops or persists.
- Ingestion : If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

The Most Important Symptoms and Hazardous Effects: --

Protection of First-aiders : no information available

Notes to a Physician : --

Section 5 - Fire Fighting Measures

Extinguishing Media : --

Specific Hazards when Fire-fight : Non-flammable. Nearby ignition source may cause release of hazardous vapor. May produce sulfoxide when caught on fire.

Specific Fire-fighting Procedure : --

Specific Protection of Firefighters : Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Personal Precautions : Avoid generation of dusts; do not inhale dusts.

Environmental Precautions : Avoid discharge into sewer.

Methods for Cleaning up :

1. Take up dry. Forward for disposal.
2. Clean up affected area. Avoid generation of dusts.

Section 7 - Handling and Storage

Handling : Handled in cool, dry, ventilated area.

Storage : Keep container tightly closed in a dry, well-ventilated area.

Section 8 - Exposure Controls & Personal Protection

Engineering measures : Use proper exhaust ventilation to keep airborne levels below recommended exposure limits.

Control parameters

TWA	STEL	Ceiling	Biological standards
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Personal protective equipment :

Protective gears should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective gears to chemicals should be ascertained with the respective supplier.

- Respiratory Protection : dust-proof mask when dusts generated



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- Hand Protection : rubber gloves
- Eye Protection : safety glasses/goggles
- Skin and Body Protection : no specific requirement

Hygiene measures : Smoking, eating and drinking are prohibited in work area. Wash hands after working with substance.

Section 9 - Physical & Chemical Properties

Appearance : solid, Pink Wish	Odor : pungent
Color : colorless, white	Melting Point: 1067 °C
pH value : 5.5~7.5	Boiling point/boiling range : 1689 °C
Flammability: --	Flash point : --
Decomposition temp : --	Test method : --
Auto ignition temp : --	Explosion properties : --
Vapor pressure : --	Vapor density : --
Density : 2.66 g/cm ³ , no water	Solubility : 11.1 g/100 ml H ₂ O(20 °C)
log Kow : --	Evaporation Rate : --

Section 10 - Stability & Reactivity Data

Stability : stable under normal conditions
Possible hazardous reactions under specific conditions : None
Conditions to avoid : Heating
Materials to avoid : Aluminum and magnesium.
Hazardous decomposition products : Oxides of sulfur and potassium

Section 11 - Toxicological Information

Route of exposure : Inhalation 、 Skin 、 Eye 、 Ingestion
Symptoms : irritation
Immediate Toxicity : 1. Skin : causes skin irritation and itchiness, and possibly serious skin irritation 2. Inhalation : causes respiratory tract irritation; symptoms include coughing and sore throat 3. Eye : causes irritation, and possibly pain 4. Ingestion : cause stomachache, diarrhea, nausea, and vomiting ■ Toxic Effects on Humans: Ingestion of large amount of potassium sulfate causes severe gastrointestinal tract irritation. ■ Toxicity to Animals: Injured cattle treated by potassium sulfate died in 2days, and appeared to have physical weakness, nerve paralysis, hypothermia, end of rumination, and constipation. Results of dissection showed abomasums and mucous membrane of small intestines congested. ● LD₅₀: 6600 mg/kg (Oral 、 rat)



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● LC ₅₀ : --
Specific effects : --

Section 12 - Ecological Information

Ecotoxicology : ■ LC₅₀(fish) : -- ■ EC₅₀(Aquatic Invertebrates) : -- ■ Bioconcentration factor (BCF) : --
Persistence and degradability : ■ Half-Life (Air) : -- ■ Half-Life (Water surface) : -- ■ Half-Life (Groundwater) : -- ■ Half-Life (Soil) : --
Bioaccumulative potential : --
Mobility in soil : --
Other adverse effects : --

Section 13 - Disposal Considerations

Methods of disposal : Dispose of as special waste in compliance with local and national environmental laws and regulations.

Section 14 - MSDS Transport Information

UN classification number : --
Proper D.O.T Shipping Name : --
Hazard Class : --
Packing Group : --
Marine pollution : None
Specific precautionary transport measures and conditions : --

Section 15 - Regulatory Information

Regulations : 1. Labor Safety and Health Facilities Regulations 2. Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials 3. Road Traffic Safety Regulations

Section 16 - Other Information

Literature references	1. CHEMINFO Data Bank, CCINFO CD, 2005-3 2. RTECS Data Bank, TOMES PLUS CD, Vol.65, 2005 3. HSDB Data Bank, TOMES PLUS CD, Vol.65, 2005 4. .ChemWatch Data Bank, 2005-1
Prepared by	Supplier : San Fu Chemical Co., Ltd.



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