

SICHUAN SHENHONG CHEMICAL INDUSTRY CO., LTD

YONGXING, MINGSHAN, YAAN, SICHUAN, CHINA

TEL: 0086-28-68803010 FAX: 0086-28-68803020

MATERIAL SAFETY DATA SHEET

CONTRACT NUMBER: PO43121-SO64938

BATCHNUMBER:20130325-1

PRODUCTION DATE:MAR 2013

EXPIRY DATE:MAR 2015

Section 1- Product Identification & Use

Product name: Sodium sulphate anhydrous; glauber salt

CAS No.: 7757-82-6

Molecular Weight: 142.04

Chemical Formula: Na₂ SO₄

Supplier: SICHUAN SHENHONG CHEMICAL INDUSTRY Co., Ltd.

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Section 2- Composition/Information on Ingredients

Ingredient	CAS No	Percent
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Sodium Sulphate	7757-82-6	90 - 100%
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Toxicological Data on Ingredients: Sodium sulphate anhydrous:
ORAL(LD50): Acute: 5989 mg/kg(mouse).

Section 3- Hazards Identification

Emergency Overview:

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

SAFT-DATA(tm) Ratings:

Health Rating: 1 - Slight

Flammability Rating: 1 - Slight

Reactivity Rating: 2 - Moderate

Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT

Storage Color Code: Green (General Storage)

Potential Health Effects:

Inhalation:

Not expected to be a health hazard.

Ingestion:

Mildly toxic by ingestion. Slowly absorbed from the alimentary tract. Because of osmotic activity, it will draw water into the lumen of the bowel and may cause purging, fluid loss, blood in stools, fall of blood pressure, and high sodium levels in the blood.

Skin Contact:

No adverse effects expected.

Eye Contact:

No adverse effects expected but dust may cause mechanical irritation.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

Section 4- First Aid Measures

Inhalation:

Not expected to require first aid measures.

Ingestion:

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Contact:

Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact:

Wash thoroughly with running water. Get medical advice if irritation develops.

Section 5- Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard, but violent explosions occur when potassium sulfate and sodium sulfate are melted with aluminum.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6- Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Section 7- Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8- Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort

to the worker, a local exhaust system should be considered.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9-Physical and Chemical Properties

Appearance:

Fine white crystalline granules.

Odor:

Odorless.

Solubility:

Soluble in approx. 3.6 parts water, 1 in 2 parts maximum @ 33C (91F).

Density:

2.68

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

No information found.

Melting Point:

844C (1551F)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

No information found.

Evaporation Rate (BuAc=1):

No information found.

Section 10- Stability and Reactivity

Stability:

Stable in tightly closed containers under normal conditions of storage.

Hazardous Decomposition Products:

Oxides of sulfur and sodium may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

In combination with sodium sulfate, aluminum and magnesium will explode @ 800C (1472F); strong mineral acids and bases.

Conditions to Avoid:

Air, moisture, and incompatibles

Section 11- Toxicological Information

Routes of Entry: Inhalation, ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 5989 mg/kg(mouse).

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May cause adverse reproductive effects (fetotoxicity) based on animal studies. No human data found.

May cause cancer (tumorigenic) based on animal studies. No human data found.

Placental absorption of sulphate has been characterized. Sulphate levels at term are somewhat higher in fetal than in maternal blood.

Special Remarks on Other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin: May cause irritation, although it is not known to be irritant.

Eyes: May cause eye irritation.

Ingestion: Saline cathartics (laxatives) are poorly absorbed from the gastrointestinal tract; hence, systemic toxicity is unlikely unless massive amounts have been ingested. Ingestion of large amounts may cause gastrointestinal (digestive) tract irritation with abdominal pain, nausea, vomiting, diarrhea. Low hazard for usual industrial handling.

Inhalation: May cause respiratory tract irritation. Low hazard for usual industrial handling.

Section 12- Ecological Information

Environmental Fate:

When released into the soil, this material is expected to leach into groundwater. This material is not expected to significantly bioaccumulate.

Environmental Toxicity:

This material is not expected to be toxic to aquatic life. The LC50/96-hour values for fish are over 100 mg/l. The EC50/48-hour values for daphnia are over 100 mg/l.

Section 13- Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14- Disposal Considerations

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

DSCL (EEC):

R36- Irritating to eyes.

S36- Wear suitable protective clothing.

S46- If swallowed, seek medical advice

Protective Equipment:

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.

immediately and show this container or label.

Section 16: Other Information

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

Label Hazard Warning:

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Label Precautions:

None.

Label First Aid:

Not applicable.

Product Use:

For industrial use.

Date: 15 OCT 2013