

Sodium Sulphate

SECTION 1. IDENTIFICATION

Product Identifier Sodium Sulphate
Other Means of Identification Sodium Sulphate Anhydrous
Product Family Inorganic Alkali Metal Sulphate
Recommended Use Primary chemical and chemical additive.
Supplier Integrity Chemical Solutions Inc. 205 Crystal Shore Drive, Okotoks Alberta, T1S 2L1
CANUTEC 24 hours 613.996.6666
Emergency Phone No. 403.988.7695

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not classified under any GHS hazard classes.

GHS Label Elements

Not applicable

Other Hazards

Violent explosions will occur when sodium sulphate is melted with aluminum or magnesium.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Sodium sulfate	7757-82-6	100 %	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Not expected to require first aid measures.

Skin Contact

Wash exposed area with soap and water.

Eye Contact

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

Ingestion

Give several glasses of water to drink to dilute. If large amounts were swallowed (>15g) get medical advice.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Any means suitable for extinguishing surrounding fire.

Specific Hazards Arising from the Chemical

Non-flammable

Violent explosions will occur when sodium sulphate is melted with aluminum or magnesium.

Special Protective Equipment and Precautions for Fire-fighters

Firefighters should wear appropriate breathing apparatus and clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Wear personal protective equipment suggested in section 8.

Methods and Materials for Containment and Cleaning Up

Shovel up dry chemical for use or disposal. Sweep up and maximize recovery. Flush residue with water if environmental regulations permit. Small amount are not injurious to soil.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, metals.

Conditions for Safe Storage

Store in a cool, dry, well ventilated area. Keep container tightly closed. Keep dry otherwise will cake, highly hygroscopic.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

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.

Individual Protection Measures

Eye/Face Protection

Safety glasses or goggles are recommended in unusually dusty conditions. Maintain an eye wash fountain if overexposure is perceived.

Skin Protection

Protective rubber gloves may be needed.

Respiratory Protection

In unusually dusty conditions a nuisance dust/mist respirator may be worn.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Odour	Slight
pH	6.0 - 9.0 (1% solution)
Melting Point/Freezing Point	882 °C (1620 °F) (melting)
Other Information	
Physical State	Solid
Bulk Density	77 - 90 lb/ft ³
Appearance	Fine white crystalline granules or powder.
Specific Gravity	2.6
Boiling Point	15.9% by weight (@20°C)

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Yes.

Possibility of Hazardous Reactions

Violent explosion will occur when sodium sulphate is melted with aluminum or magnesium.

Conditions to Avoid

None known.

Incompatible Materials

Aluminum.

Hazardous Decomposition Products

When heated to decomposition (1100°C), sodium sulphate emits toxic oxides of sulphur and sodium oxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Potential Health Effects: May cause skin irritation, although it is not known as an irritant. May cause eye irritation. 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. May cause respiratory tract irritation.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Sodium sulfate	Not available	5,989 mg/kg (mouse)	Not available

Skin Corrosion/Irritation

Can cause minor irritation.

Serious Eye Damage/Irritation

Can cause irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Can cause slight irritation of respiratory passages.

Ingestion

Slowly absorbed from the alimentary tract. Because of osmotic activity, it will draw water into the lumen of the bowel and, in sufficient quantity, may cause purging and fluid loss.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No long term effects are expected.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Sodium sulfate	Not Listed	Not Listed	Not Listed	Not Listed

Not listed as a carcinogenic(IARC, NTP, ACGIH, or NIOSH).

Reproductive Toxicity

Development of Offspring

Not Available.

Sexual Function and Fertility

Reproductive effects cited in RTECS from injectable doses of 60 mg/kg in mice.

Germ Cell Mutagenicity

Not Available.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Not Available.

Persistence and Degradability

Product Identifier: Sodium Sulphate
Date of Preparation: November 6, 2024

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The product itself and its products of degradation are not toxic.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Deliver to an approved waste disposal facility. Ensure compliance with local, provincial, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

Special Precautions for User Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS Classification

Not a WHMIS controlled product.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

SECTION 16. OTHER INFORMATION

SDS Prepared By Integrity Chemical Solutions Inc.

Phone No. 403.988.7695

Date of Preparation November 6, 2024

Disclaimer This Health and Safety information is correct to the best of our knowledge and belief at the date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.