

# Safety Data Sheet

## Sodium Sulfate, Anhydrous

**CAROLINA<sup>®</sup>**  
www.carolina.com

### Section 1

### Product Description

**Product Name:** Sodium Sulfate, Anhydrous  
**Recommended Use:** Science education applications  
**Synonyms:** Salt Cake; Disodium Sulfate  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2

### Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

**Other Safety Precautions:** May cause eye irritation.  
May cause gastrointestinal discomfort.  
May cause irritation to respiratory tract.  
May cause irritation to skin.

### Section 3

### Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Sodium Sulfate, Anhydrous	7757-82-6	100

### Section 4

### First Aid Measures

#### Emergency and First Aid Procedures

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Skin Contact:** After contact with skin, wash immediately with plenty of water.  
**Ingestion:** If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

### Section 5

### Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.  
**Hazardous Combustion Products:** Sodium Oxides, Sulfur Oxides

### Section 6

### Spill or Leak Procedures

#### Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away.  
Reduce airborne dust and prevent scattering by moistening with water Vacuum or sweep up material and place in a disposal container Avoid runoff into storm sewers and ditches that lead to waterways.

# Safety Data Sheet

## Section 7

## Handling and Storage

**Handling:** Keep container tightly closed in a cool, well-ventilated place. Do not breathe dust. Avoid contact with skin and eyes. Harmful if swallowed.

**Storage:** Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** Green - general chemical storage

## Section 8

## Protection Information

<u>Chemical Name</u>	<u>(TWA)</u>	<u>ACGIH</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>OSHA PEL</u>	<u>(STEL)</u>
No data available	N/A		N/A	N/A		N/A

**Control Parameters**

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use. Respiratory protection may be required in addition to ventilation depending upon conditions of use. NIOSH approved air purifying respirator with dust/mist filter.

**Respirator Type(s):** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Eye Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Skin Protection:**

**Gloves:** Nitrile

## Section 9

## Physical Data

**Formula:** Na<sub>2</sub>SO<sub>4</sub>

**Molecular Weight:** 142.04

**Appearance:** White Powder

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** No data available

**Melting Point:** 884 - 888 C

**Boiling Point:** > 890 C

**Flash Point:** No data available

**Flammable Limits in Air:** N/A

**Vapor Pressure:** N/A

**Evaporation Rate (BuAc=1):** N/A

**Vapor Density (Air=1):** N/A

**Specific Gravity:** 2.7 g/cm<sup>3</sup> at 20 °C

**Solubility in Water:** Slightly Soluble

**Log Pow (calculated):** No data available

**Autoignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Viscosity:** No data available

**Percent Volatile by Volume:** N/A

## Section 10

## Reactivity Data

**Reactivity:** No data available

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Exposure to moisture Elevated temperatures

**Hazardous Decomposition Products:** Sulfur Oxides, Sodium Oxides

**Hazardous Polymerization:** Will not occur

## Section 11

## Toxicity Data

**Routes of Entry:** Inhalation and ingestion.

**Symptoms (Acute):** N/A

**Delayed Effects:** No data available

**Acute Toxicity:**

**Chemical Name**

Sodium Sulfate, Anhydrous

**CAS Number**

7757-82-6

**Oral LD50**

Oral LD50 Mouse

5989 mg/kg

**Dermal LD50**

Not determined

**Inhalation LC50**

Not determined



# Safety Data Sheet

**Carcinogenicity:**  
**Chemical Name**  
No data available

**CAS Number**  
7757-82-6

**IARC**  
Not listed

**NTP**  
Not listed

**OSHA**  
Not listed

**Chronic Effects:**

**Mutagenicity:**

**Teratogenicity:**

**Sensitization:**

**Reproductive:**

**Target Organ Effects:**

**Acute:**

**Chronic:**

No evidence of a mutagenic effect.  
No evidence of a teratogenic effect (birth defect).  
No evidence of a sensitization effect.  
No evidence of negative reproductive effects.

See Section 2

Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12

### Ecological Data

**Overview:**

**Mobility:**

**Persistence:**

**Bioaccumulation:**

**Degradability:**

**Other Adverse Effects:**

This material is not expected to be harmful to the ecology. Keep out of waterways.

No data

No data

No data

No data

No data

**Chemical Name**

Sodium Sulfate, Anhydrous

**CAS Number**

7757-82-6

**Eco Toxicity**

96 HR LC50 PIMEPHALES PROMELAS 13500 - 14500 MG/L

96 HR LC50 PIMEPHALES PROMELAS > 6800 MG/L [STATIC]

96 HR LC50 LEPOMIS MACROCHIRUS 13500 MG/L

96 HR EC50 DAPHNIA MAGNA 630 MG/L

48 HR EC50 DAPHNIA MAGNA 2564 MG/L

## Section 13

### Disposal Information

**Disposal Methods:**

**Waste Disposal Code(s):**

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.  
Not Determined

## Section 14

### Transport Information

**Ground - DOT Proper Shipping Name:**  
N/A

**Air - IATA Proper Shipping Name:**  
Not regulated for air transport by IATA.

## Section 15

### Regulatory Information

**TSCA Status:**

All components in this product are on the TSCA Inventory.

**Chemical Name**

**CAS  
Number**

**§ 313 Name**

**§ 304 RQ**

**CERCLA RQ**

**§ 302 TPQ**

**CAA 112(2)  
TQ**

No data available

7757-82-6

No

No

No

No

No

## Section 16

### Additional Information

**Revised: 11/03/2015**

**Replaces: 11/03/2015**

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

#### Glossary

# Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health