

# Safety Data Sheet

## Sodium Sulfate, 0.5 M



### Section 1 Product Description

**Product Name:** Sodium Sulfate, 0.5 M  
**Recommended Use:** Science education applications  
**Synonyms:** Sodium Sulfate, 0.5 M Aqueous Solution  
**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;**

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**GHS Classification:**

Hazardous to the aquatic environment - Acute Category 3, Hazardous to the aquatic environment - Chronic Category 3

### Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	92.9
Sodium Sulfate, Anhydrous	7757-82-6	7.1

### 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.

### Section 7 Handling and Storage

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**Handling:** Avoid release to the environment. Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing.  
Retained residue may make empty containers hazardous; use caution.  
**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>ACGIH</u>	<u>OSHA PEL</u>		
	(TWA)	(STEL)	(TWA)	(STEL)
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.

#### Respirator Type(s):

NIOSH approved air purifying respirator with dust/mist filter.

#### Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station available.

#### Skin 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.

#### Gloves:

Natural rubber, Neoprene, PVC or equivalent.

## Section 9 Physical Data

<b>Formula:</b> Na <sub>2</sub> O <sub>4</sub> S	<b>Vapor Pressure:</b> 14 (water)
<b>Molecular Weight:</b> 142.04 g/mol	<b>Evaporation Rate (BuAc=1):</b> Slightly less than 1
<b>Appearance:</b> Colorless Liquid	<b>Vapor Density (Air=1):</b> 0.7 (water)
<b>Odor:</b> None	<b>Specific Gravity:</b> Approx. 1.0
<b>Odor Threshold:</b> No data available	<b>Solubility in Water:</b> Soluble
<b>pH:</b> No data available	<b>Log Pow (calculated):</b> No data available
<b>Melting Point:</b> 0 C	<b>Autoignition Temperature:</b> No data available
<b>Boiling Point:</b> 100 C	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> No data available	<b>Viscosity:</b> No data available
<b>Flammable Limits in Air:</b> N/A N/A	<b>Percent Volatile by Volume:</b> 92.9%

## Section 10 Reactivity Data

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Exposure to moisture
<b>Incompatible Materials:</b>	Aluminum alloys, Strong acids, Magnesium
<b>Hazardous Decomposition Products:</b>	Sulfur Oxides, Sodium Oxides
<b>Hazardous Polymerization:</b>	Will not occur

## Section 11 Toxicity Data

<b>Routes of Entry</b>	Inhalation, ingestion, eye or skin contact.
<b>Symptoms (Acute):</b>	N/A
<b>Delayed Effects:</b>	No data available

### Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Sodium Sulfate, Anhydrous	7757-82-6	Oral LD50 Mouse 5989 mg/kg		

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**Carcinogenicity:****Chemical Name**

No data available

**CAS Number****IARC**

Not listed

**NTP**

Not listed

**OSHA**

Not listed

**Chronic Effects:****Mutagenicity:**

No evidence of a mutagenic effect.

**Teratogenicity:**

No evidence of a teratogenic effect (birth defect).

**Sensitization:**

No evidence of a sensitization effect.

**Reproductive:**

No evidence of negative reproductive effects.

**Target Organ Effects:****Acute:**

See Section 2

**Chronic:**

To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated.

## Section 12

### Ecological Data

**Overview:**

Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife. Keep out of waterways.

**Mobility:**

No data

**Persistence:**

No data

**Bioaccumulation:**

No data

**Degradability:**

No data

**Other Adverse Effects:**

No data

**Chemical Name**

Water

Sodium Sulfate, Anhydrous

**CAS Number**

7732-18-5

7757-82-6

**Eco Toxicity**

No data available

96 HR LC50 LEPOMIS MACROCHIRUS 13500 MG/L

96 HR LC50 PIMEPHALES PROMELAS &gt; 6800 MG/L [STATIC]

96 HR LC50 PIMEPHALES PROMELAS 13500 - 14500 MG/L

48 HR EC50 DAPHNIA MAGNA 2564 MG/L

96 HR EC50 DAPHNIA MAGNA 630 MG/L

## Section 13

### Disposal Information

**Disposal Methods:**

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

**Waste Disposal Code(s):**

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

No

No

No

No

No

## Section 16

### Additional Information

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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