# Sodium Borate, 4%



Section 1 Product Description

**Product Name:** Sodium Borate, 4%

**Recommended Use:** Science education applications

**Synonyms:** Sodium Tetraborate Solution; Borax 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;

**GHS Classification:** 

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.

No known OSHA hazards.

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 96

 Sodium Tetraborate, 10-hydrate
 1303-96-4
 4

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: N/A

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Prevent the spread of any spill to minimize harm to human health and the environment if safe

to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

**Handling:** Do not ingest or take internally.

**Storage:** Suitable for any general chemical storage.

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Storage Code: Green - general chemical storage

#### Section 8 **Protection Information**

**OSHA PEL ACGIH** 

(TWA) **Chemical Name** (STEL) (TWA) (STEL) Sodium Tetraborate, 10-hydrate 2 mg/m3 TWA 6 mg/m3 STEL N/A N/A

> (inhalable fraction, (inhalable fraction, listed under Borate listed under Borate compounds, compounds, inorganic) inorganic)

**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.

**Eve 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

Gloves: No information available

#### Section 9 Physical Data

Formula: Na2B4O7 • 10 H2O Vapor Pressure: N/A Molecular Weight: N/A

Appearance: Colorless Liquid Vapor Density (Air=1): N/A Odor: None Specific Gravity: 1

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

**Boiling Point: 100 C** 

Flash Point: No data available Flammable Limits in Air: N/A

Evaporation Rate (BuAc=1): N/A

Solubility in Water: 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

Not generally reactive under normal conditions. Reactivity:

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

**Conditions to Avoid:** None known.

**Incompatible Materials:** Water-reactive materials, Alkaloidol Salts, Metal Salts

Hazardous Polymerization: Will not occur

#### Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eve or skin contact,

Symptoms (Acute): Gastrointestinal., Eye Irritation, Respiratory Irritation

**Delayed Effects:** 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

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Sodium Tetraborate, 10-hydrate 1303-96-4 Oral LD50 Rat

1200 mg/kg Oral LD50 Mouse 1060 mg/kg Oral LD50 Rat 2660 mg/kg Oral LD50 Mouse

2 GM/KG

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHASodium Tetraborate, 10-hydrate1303-96-4ListedNot listedNot 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: No information available

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

# Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

Mobility: No data

**Persistence:** Adsorbs to soil., Dissolved into water

Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Sodium Tetraborate, 10-hydrate 1303-96-4

# 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):

If discarded, this product is considered a RCRA toxic waste.

# Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: Not regulated for transport by DOT. 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 § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number TQ

Sodium Tetraborate, 10-hydrate 1303-96-4 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.

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

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