

Safety Data Sheet

SODIUM BORATE, ACS

Section 1 - Chemical Product and Company Identification

SDS Name: Sodium Borate, ACS

Catalog Numbers: SO-822

Company Identification: Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

H303-Acute toxicity, oral: 5

H313-Acute toxicity, dermal: 5

H319-Serious eye damage/eye irritation: 2A

H332-Acute toxicity, inhalation: 4

H360-Reproductive toxicity: 1B

Pictograms or Hazard symbols and Hazard statement(s):



Signal Word: Danger

Hazard statements:

H303-May be harmful if swallowed

H313-May be harmful in contact with skin

H319-Causes serious eye irritation

H332-Harmful if inhaled
H360-May damage fertility or the unborn child

Precautionary Statements:

P201-Obtain special instructions before use.
P202-Do not handle until all safety precautions have been read and understood.
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.
P264-Wash thoroughly after handling.
P271-Use only outdoors or in a well-ventilated area.
P280-Wear protective gloves/protective clothing/eye protection/face protection.
P281-Use personal protective equipment as required.
P301+P312-If swallowed: Call a Poison Center/doctor/physician if you feel unwell.
P302+P312-If on skin: Call a Poison Center or doctor if you feel unwell.
P304+P340-If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313-If exposed or concerned: Get medical advice/attention.
P337+P313-If eye irritation persists: Get medical advice/attention.
P405-Store locked up.
P501-Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
1303-96-4	Sodium Tetraborate Decahydrate	≥99.5

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical advice.

Oral Exposure: If swallowed, seek immediate medical advice. Do NOT induce vomiting.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use dry chemical, carbon dioxide, dry sand, water spray or alcohol-resistant foam.

Hazardous Combustion Products: Boron oxides, sodium oxides, irritating toxic fumes and gases.

Flash Point: Not available

Autoignition Temperature: Not available

Explosion Limits, Lower: Not available

Upper: Not available

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation. Avoid dust formation.

Methods for Cleaning up: Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Avoid dust formation. Do not release to the environment. Do not release to drains.

Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Ensure adequate ventilation. Wash thoroughly after handling. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Minimize dust generation and accumulation. Store in a tightly closed container at room temperature. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits:

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA – PEL
Sodium Tetraborate Decahydrate CAS#1303-96-4	2 mg/m3 TWA 6 mg/m3 STEL	5 mg/m3 TWA	10 mg/m3 TWA (vacated)

Section 9 - Physical and Chemical Properties
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Physical State: Powder Solid

Appearance: White

Odor: Odorless

Vapor Pressure: 0.213 hPa at 20°C

Odor threshold: Not applicable

Vapor Density: Not applicable

pH: 9 (5% aqueous solution at 20°C)

Relative density: Not available

Melting point/freezing point: 75°C

Solubility: 38.1 g/L at 20°C – Soluble in water

Boiling Point: 320°C – Decomposes below the boiling point

Flash point: Not available

Evaporation Rate: Not applicable

Flammability (solid, gas): Not available

Partition coefficient: n-octanol/water: Not applicable

Auto-ignition temperature: Not available

Decomposition temperature: >100°C

Viscosity: Not applicable

Specific Gravity/Density: 1.7300

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials. Exposure to air. Avoid dust formation.

Incompatibilities with Other Materials: Strong oxidizing agents, strong acids, and powdered metal salts.

Hazardous Decomposition Products: Boron oxides, sodium oxides, irritating toxic fumes and gases.

Section 11 - Toxicological Information

CAS#1303-96-4 Sodium Tetraborate Decahydrate: RTECS#: VZ2275000

LD50 Oral: >2500 mg/kg (rat)

LD50 Dermal: >2000 mg/kg (rabbit)

LC50 Inhalation: 2.03 mg/L (rat)

Carcinogenicity: Sodium Tetraborate Decahydrate CAS#1303-96-4 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop 65.

Epidemiology: Not available

Teratogenicity: May cause harm to the unborn child.

Reproductive Effects: May damage the unborn child. May damage fertility.

Developmental Effects: Not available

Neurotoxicity: Not available

Mutagenicity: Not available

Specific Target Organ Toxicity, Single Exposure: Not available

Specific Target Organ Toxicity, Repeated Exposure: Not available

The toxicological properties of this material have not been thoroughly investigated.

Section 12 - Ecological Information

Ecotoxicity: Do not release to the environment. Do not release to drains.

CAS#1303-96-4 Sodium Tetraborate Decahydrate:

LC50, freshwater fish: 340 mg/L 96h (pimephales promelas)

LC50, freshwater fish: 708 mg/L 96h (pimephales promelas)

EC50, freshwater algae: 2.6-21.8 mg/L 96h

EC50, freshwater algae: 158 mg/L 96h

LC50, water flea: 1085-1402 mg/L 48h

Persistence and degradability: Not available.

Bio-accumulative potential: Not available.

Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT

Non-Regulated

Section 15 – Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

Section 16 – Additional Information

SDS Creation Date: 1-8-2010

Revision #1. 12-2-14 RC

Revision #2. 9-16-22

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