

Section 1 - Chemical Product and Company Identification

Section 2 – Composition, Information on Ingredients

CAS#

Chemical Name:

Percent

1303-96-4

Sodium tetraborate, decahydrate

100

Section 3 - Hazards Identification

Emergency Overview

Appearance: White solid.

Danger! Causes eye, skin, and respiratory tract irritation. May impair fertility. May cause harm to the unborn child.

Target Organs: None.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion:

May cause irritation of the digestive tract. Human fatalities have been reported from acute poisoning.

Inhalation:

May cause respiratory tract irritation.

Chronic:

Chronic exposure may cause reproductive disorders and teratogenic effects.



Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

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, thermal decomposition or combustion may generate irritating and highly toxic gases. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Autoignition Temperature: Not applicable **Flash Point:** Not applicable **NFPA Rating:**

(estimated) Health: 2; Flammability: 0; Instability: 0 **Explosion Limits:**

Lower: n/a Upper: n/a

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Sweep up or absorb material, and then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions.



Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Sodium tetraborate,	none listed	none listed	none listed
decahydrate			

OSHA Vacated PELs:

Sodium tetraborate, decahydrate: No OSHA Vacated PELs are listed for this chemical.

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 gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Solid
Color:	White
Odor:	None reported
pH:	9.5 (5% sol.)
Vapor Pressure:	Not available
Vapor Density:	Not available
Evaporation Rate:	Not applicable
Viscosity:	Not available
Boiling Point:	1575°C
Freezing/Melting Point:	741°C



Decomposition Temperature:Not availSolubility in water:SolubilitySpecific Gravity/Density:1.73 (wMolecular Formula:B4Na2Molecular Weight:381.36

Not available Soluble in water 1.73 (water=1) B4Na2O7.10H2O 381.36

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Conditions to Avoid: Dust generation. Incompatibilities with Other Materials: Alkaloid salts, metallic salts, strong acids. Hazardous Decomposition Products: Oxides of boron. Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 1303-96-4: VZ2275000 LD50/LC50: CAS# 1303-96-4: Oral, mouse: LD50 = 2 gm/kg; Oral, rat: LD50 = 2660 mg/kgCarcinogenicity: CAS# 1303-96-4: Not listed by ACGIH, IARC, NTP, or California Proposition 65. **Epidemiology:** No information found. Teratogenicity: Developmental effects were observed in mice, rats and rabbits after oral administration of boric acid. However, these effects were considered secondary to maternal toxicity (increased liver and kidney weight). **Reproductive:** Adverse reproductive effects have occurred in experimental animals. Boric acid has selectively damaged the testes, sperm production and fertility in rats and dogs. Mutagenicity: No information found.

Neurotoxicity:

No information found.

Section 12 - Ecological Information

No information found.



Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 1303-96-4 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

None of the chemicals in this material have an RQ.

CERCLA/SARA Section 313:

No chemicals are reportable under Section 313.

OSHA - Highly Hazardous:

None of the chemicals in this product are considered highly hazardous by OSHA.

US State

State Right to Know:

CAS# 1303-96-4 is not present on state lists from California, Pennsylvania, Minnesota, Massachusetts, or New Jersey.

California Regulations:

None.

European/International Regulations

Canadian DSL/NDSL:

CAS# 1303-96-4 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 1303-96-4 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 14, 2007 Revision Date: October 12, 2009

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