

# **Section 1 - Chemical Product and Company Identification**

# MSDS Name:

Sodium borate, decahydrate

### **Catalog Numbers:**

LC22955

#### Synonyms:

Borax; Sodium tetraborate decahydrate; Disodium tetraborate decahydrate.

## Company Identification:

LabChem Inc

200 William Pitt Way

Pittsburgh, PA 15238

# **Company Phone Number:**

(412) 826-5230

## **Emergency Phone Number:**

(800) 424-9300

## **CHEMTREC Phone Number:**

(800) 424-9300

# Section 2 – Composition, Information on Ingredients

	CAS#	Chemical Name:	Percent
Ī	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:**

<b>Chemical Name:</b>	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:
Solubility in water:
Specific Gravity/Density:
Molecular Formula:
Not available
Soluble in water
1.73 (water=1)
B4Na2O7.10H2O

Molecular Weight: 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/kg

#### Carcinogenicity:

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**

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