

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

CHEMTREC (24hr) 1-800-424-9300

# Section 1: Identification

Product Name Sodium Borate NF Decahydrate (Borax)

Commercial Name Not available.

Product Use Industrial manufactoring

Restrictions On Use Not available

Product Code 30-1233

Company PCCA In case of emergency contact:

9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760

Section 2: Hazard(s) Identification

OSHA Haz Com: Reproductive toxicity (Category 2) Serious Eye Damage / Eye Irritation (Category 2A)

CFR 1910.1200

Signal Word WARNING

Hazard Statement(s) May damage fertility or the unborn child. Causes serious eye irritation

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have

been read and understood. P281 Use personal protective equipment as required.

**Response** P308 P313 IF exposed or concerned: Get medical advice/ attention.

Storage P405 Store locked up

Disposal P501 Dispose of contents/container to an approved waste disposal plant

# Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Sodium borate

% By Weight 100 CAS# 1303-96-4

Molecular Weight 381.37 g/mole
Chemical Formula Na2B4O7.10(H2O)

Synonym(s) Sodium tetraborate decahydrate, disodium tetraborate decahydrate, borax decahydrate

**Mixtures** 

 Name
 CAS#
 % by Weight
 TLV/PEL
 LC50/LD50

 Sodium borate
 1303-96-4
 100
 TWA: 0.31 (ppm)
 ORAL (LD50):Acute: 2660mg/kg [Rat.].

TWA: 5 (mg/m3) from ACGIH[1995]

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#### Section 4: First-Aid Measures

Inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin Contact** Wash off with soap and plenty of water. Consult a physician.

**Eve Contact** Flush eyes with water as a precaution.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Symptoms/Effects

Acute Not available Delayed Not available

**Immediate Medical Attention** 

Not available.

# Section 5: Fire-Fighting Measures

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

Not available.

### **Products of Combustion**

Borane/boron oxides, Sodium oxides Not flammable or combustible

### Firefighters Special Equipment and Precautions

Wear self contained breathing apparatus for fire fighting if necessary.

#### Section 6: Accidental Release Measures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequateventilation. Evacuate personnel to safe areas. Avoid breathing dust. Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers fordisposal.

#### Section 7: Handling and Storage

Precautions for safe handling: Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.

# Section 8: Exposure Controls/Personal Protection

Exposure Limits
Engineering Controls
Personal Protection

Contains no substances with occupational exposure limit values.

Not available

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100(US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the solemeans of protection, use a full-face supplied air respirator. Use respirators and components tested and approvedunder appropriate government standards such as NIOSH (US) or CEN (EU). Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touchingglove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved underappropriate government standards such as NIOSH (US) or EN 166(EU). Skin and body protection: Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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# Section 9: Physical and Chemical Properties

Solid. (Solid crystalline powder.) Color: White. **Appearance** 

CHARACTERISTIC Odor **Odor Threshold** Not available

62 (°C) Not available **Melting Point** pН **Freezing Point** Not available **Vapor Pressure NEGLIBLE** Not available. Not available **Boiling Point/Range Vapor Density** Not available Not available. **Decomposition temperature Viscosity** Not available **Evaporation Rate** Not available

**Partition Coefficient:** n-octanol/water

Not applicable. Not available **Flash Point** Autoignition temperature

**Flammability** Nonflammable Flammability or Explosive Limits:

> Not avaialbel Lower

Upper

Not available

Solubility(ies) **SOLUBLE** 

Other Density @25 °C 1.71

# Section 10: Stability and Reactivity

None Reactivity

Stable under recommended storage conditions. **Chemical Stability** 

Not available **Hazardous Polymerization** Not available **Conditions to Avoid** 

Strong oxidizing agents, Strong reducing agents **Incompatible Materials** 

**Hazardous Decomposition Products** Hazardous decomposition products formed under fire conditions. - Borane/boron oxides,

Sodium oxides

# Section 11: Toxicological Information

VZ2275000 **RTECS** 

# **Acute Toxicity**

#### Skin Corrosion/Irritation

Not available

#### Serious Eye Damage/Irritation

Not available

## Respiratory or Skin Sensitization

Not available

# **Germ Cell Mutagenicity**

Not available

# Carcinogenicity

Not available

# Reproductive Toxicity

Presumed human reproductive toxicant

# **Routes of Entry**

Not available

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# Symptoms Related to Exposure

Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. Studies with the chemically related boric acid in the rat, mouse and rabbit, at high doses, demonstrate developmental effects on the fetus, including fetal weight loss and minor skeletal variations. The doses administered were many times in excess of those to which humans would normally be exposed. Human epidemiological studies show no increase in pulmonarydisease in occupational populations with cronic exposures to boric acid dust and sodium borate dust. A recentepidemiological study under the conditions of normal occupational eposure to borate dusts indicated no effect on fertility.

#### **Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Target Organ(s)

No target has been indentified in humans High does, animal ingestion studies indicate the testes are the target org-

# Section 12: Ecological Information

#### **Ecotoxicity**

Toxicity to fish: LC50 - Carassius auratus (goldfish) - 178 mg/l - 72 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 1,085 - 1,402 mg/l - 48 h Toxicity to algae IC50 - Desmodesmus subspicatus (green algae) - 158 mg/l - 96 h

### Persistance and Degradability

Not available

#### **Bioaccumulative Potential**

Not available

# **Mobility in Soil**

Not available

#### Other Adverse Effects

Not available

# Section 13: Disposal Considerations

# **Waste Disposal**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional wastedisposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in achemical incinerator equipped with an afterburner and scrubber.

#### **Disposal of Container**

Dispose of as unused product.

## Other Considerations

Not available

#### Section 14: Transport Information

## **DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

# Section 15: Regulatory Information

#### Regulations

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SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Chronic Health Hazard Massachusetts Right To Know Components Disodium tetraborate decahydrate CAS-No. Revision Date 1303-96-4 1993-04-24

Pennsylvania Right To Know Components Disodium tetraborate decahydrate CAS-No. Revision Date

1303-96-4 1993-04-24 New Jersey Right To Know Components Disodium tetraborate decahydrate CAS-No. Revision Date 1303-96-4 1993-04-24

California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any otherreproductive harm. 16. OTHER CATEGORIES Safety Data Sheet prepared by: Penta The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Penta's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

#### Other

WHMIS Not controlled under WHMIS (Canada). (Canada); DSCL (EEC) R36/38- Irritating to eyes and skin.; Gloves.; Lab coat.; Dust respirator. Be sure to use an approved/certified respirator or equivalent.; Splash goggles.

#### Section 16: Other Information

Product label text hazard information': • Do not ingest, • Eye Irritant • Ingestion may cause reproductive harm or birth defects based on animal data • Avoid contamination of food or feed. • Not for use in food, drugs or pesticides+ • Refer to MSDS • KEEP OUT OF REACH OF CHILDREN. 'The WHMIS panel format is used for Canadian product. +Except for NF (pharmaceutical grade) products, National Fire Protection Assoc. (NFPA) Classification: Health 1 Flammability 0 Reactivity 0 Hazardous Materials Information Systems (HMIs): Red (Flammability) 0 Yellow: (Reactivity) 0 Blue: (Acute Health) 1' 'Chronic Effects

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