

Catalog Number: 190308 Revision date: 24-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 190308

Product name: BORAX

Synonyms: Sodium Tetraborate decahydrate

Supplier:

MP Biomedicals, LLC 29525 Fountain Parkway

Solon, OH 44139 tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

ComponentsCAS NumberWeight %ACGIH Exposure Limits:OSHA Exposure Limits:BORAX1303-96-490 - 100%1 mg/m³ TWA (anhydrous):None

1 mg/m³ TWA (anhydrous); 5 mg/m³ TWA (decahydrate); 1 mg/m³ TWA (pentahydrate)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Harmful by inhalation, in contact with skin and if swallowed.

Category of Danger:

Harmful

Principle routes of exposure: Skin Inhalation: Harmful by inhalation. Ingestion: Harmful if swallowed.

Skin contact: Harmful in contact with skin. **Eye contact:** Risk of serious damage to eyes

Statements of hazard HARMFUL IF SWALLOWED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR

INHALED.

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice

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Ingestion: Do not induce vomiting without medical advice.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam

Specific hazards:Burning produces irritant fumes.

Unusual hazards: None known

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

Water mist may be used to cool closed containers.

Flash point: Not determined Autoignition temperature: Not determined

NFPA rating:

Specific methods:

NFPA Health: 1 NFPA Flammability: 1 NFPA Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:Use personal protective equipment. **Environmental precautions:**Prevent product from entering drains.

Methods for cleaning up:Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE DESICCATE

Handling: Use only in area provided with appropriate exhaust

ventilation.

Safe handling advice: Wear personal protective equipment.

Incompatible products: Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against

this potential effect.

Eye protection: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and OdorWhite crystallinePhysical state:Powder

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Formula: B4Na2O7•10H2O

Molecular weight: 381.4 Melting point/range: 741°C Boiling point/range: 1575°C 1.730 g/ml Density:

Vapor pressure: No data available **Evaporation rate:** No data available Vapor density: No data available Solubility (in water): Slightly soluble Not determined Flash point: Autoignition temperature: Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization: None under normal processing.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating

gases and vapours such as carbon oxides.

Materials to avoid:

Reacts with acids, metallic salts.

Conditions to avoid: Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information Acute toxicity

Components **RTECS Number:** Selected LD50s and LC50s **BORAX** VZ2275000 Oral LD50 Rat: 2660 mg/kg Oral LD50 Mouse: 2 gm/kg

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes

unconsciousness.

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised

skin), nausea, vomiting, headache.

Primary irritation: No data is available on the product itself. No data is available on the product itself. Carcinogenic effects: Mutagenic effects: No data is available on the product itself. Reproductive toxicity: No data is available on the product itself. Components

NIOSH - Health Effects NIOSH - Target Organs BORAX respiratory system, skin, eyes

Skin, eye, and upper respiratory irritation;

Possible shortness of breath and nose

bleeds

12. ECOLOGICAL INFORMATION

Mobility: No data available **Bioaccumulation:** No data available **Ecotoxicity effects:** No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic

environment.

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Components U.S. DOT - Appendix B -

Marine Pollutan

Not Listed

U.S. DOT - Appendix B -**Severe Marine Pollutants**

United Kingdom - The Red

List: Not Listed

Components

Germany VCI (WGK)

World Health Organization (WHO) - Drinking Water

Ecotoxicity - Fish Species

BORAX

BORAX

Not Listed

Not Listed

Not Listed

Not Listed

Components

Ecotoxicity - Freshwater

Algae Data

Ecotoxicity - Microtox Data Ecotoxicity - Water Flea

Data

BORAX

BORAX

BORAX

Not Listed

Not Listed

Not Listed

Components

EPA - ATSDR Priority List

EPA - HPV Challenge Program Chemical List **California - Priority Toxic Pollutants**

Not Listed

Not Listed

Not Listed

Components

California - Priority Toxic Pollutants

California - Priority Toxic Pollutants

Not Listed

Not Listed

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate

> Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished

with this material may be hazardous. Do not re-use empty containers

Contaminated packaging:

14. TRANSPORT INFORMATION

UN/Id No: Not regulated

DOT:

Proper shipping name: Not Regulated

Components U.S. DOT - Appendix A Table 1 - Reportable Quantities

BORAX Not Listed

TDG (Canada):

WHMIS hazard class: D2a very toxic materials

IMDG/IMO

IMDG - Hazard Classifications Not Applicable

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Components U.S. DOT - Appendix B - Marine Pollutan U.S. DOT - Appendix B - Severe Marine

Pollutants

BORAX Not Listed Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components

BORAX

Inventory - United States TSCA - Sect. 8(b) Present Canada DSL Inventory List -Present Present Australia (AICS): **Inventory - China:** Present **Korean KECL:** KE-03483 **Philippines PICCS:** Present

U.S. regulations:

California Proposition 65 Massachusetts Right to Components **New Jersey Right to** Pennsylvania Right to Know

Know List: Know List: List: Not Listed sn 0241 [present] [present]

BORAX

Connecticut - Hazardous Air Florida substance List: **Rhode Island Right to** Illinois - Toxic Air Components

Know List: **Contaminants Pollutants** effective March 13, 1992 Toxic Not Listed 20 ug/m3 HLV (anhydrous); 100 **BORAX**

ug/m3 HLV (decahydrate); 20

ug/m³ (pentahydrate)

SARA 313 Emission CERCLA/SARA - Section NTP: IARC: Components

reporting/Toxic Release 302 Extremely Haz

of Chemicals

BORAX Not Listed Not Listed None None

SARA 313 Notification: The above is your notification as to the SARA 313 listing for this product(s) pursuant

to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of

1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community

Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in

Washington, DC or Alaska).

State Notification: The above information is your notice as to the Right-to-Know listings of the stated

> product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive

hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet

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