



GHS Safety Data Sheet

Rose Mill Co.

Borax 10 MOL

MSDS Number: rm-Brx10 Revision Date: 2/20/2015

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PRODUCT AND COMPANY IDENTIFICATION

Product Name: Borax 10 MOL **Revision Date:** 2/20/2015 Version: 1.1

MSDS Number: rm-Brx10

Common Name: Sodium Tetraborate Decahydrate

CAS Number: 1303-96-4 **Chemical Family:** Inorganic Salt **Chemical Formula:** Na2B4O7:10H2O

Synonyms: Borax, Disodium Tetraborate Decahydrate, Sodium Diborate Decahydrate, Deca Borax, Borax 10 mol Ph

Supplier:

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2 **HAZARDS IDENTIFICATION**

Route of Entry: Eyes; Mild eye irritant. Inhalation: Occasional mild irritation effects to nose and throat may occur from inhalation of

dust levels greater than 10m/m3.

Target Organs: No target organs have been determined in humans. High does animal ingestion studies indicate the testes are the

target organ.

Inhalation: Occasional mild irritation effects to nose and throat may occur from inhalation of anhydrous borax dusts at level

greater than 10 mg/m3.

Skin Contact: Non-irritating.

Eve Contact: Does not cause eye irritation in normal industrial use.

Product not intended for ingestion and has low acute toxicity, Small amount (e.g a teaspoonful) swallowed Ingestion:

accidentally are not likely to cause effects: swallowing amounts larger than that may cause gastrointestinal sypmtoms.

GHS Signal Word: DANĞER

GHS Hazard Pictograms:



GHS Classifications:

Health, Reproductive toxicity, 1

GHS Phrases:





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H360 - May damage fertility or the unborn child

GHS Precautionary Statements:

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P332+313 - If skin irritation occurs: Get medical advice/attention.

P264 - Wash _ thoroughly after handling.

Sodium Tetraborate Decahydrate is a white odorless, powdered substance that is not flammable, combustible, or explosive and it presents no unuusal hazard if involved in a fire. It presents little or not hazard (to humans) and has low acute oral and dermal toxicities. Care should be taken to minimize the amount released to the environment to avoid ecological effects.

3 **COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients:

Cas #	Percentage	Chemical Name
1303-96-4	>99% >99%	Borates, tetra, sodium salts (decahydrate) Borax (B4Na207.10H2O)

4 **FIRST AID MEASURES**

Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Wash with soap and water.

Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate **Eye Contact:**

irrigation.

Ingestion: Non intended for digestion. Small amounts (e.g.a teaspoonful) swallowed accidentally are not likely to cause effects. If

large amounts are swallowed, give two glasses of water or milk to drink and seek medical attention.

5 FIRE FIGHTING MEASURES

Flammability: Non flammable Flash Point: Not applicable

Product is non-flammable, non-combustible and not explosive. Product is often used as flame retardant. Any fire extinguishing media may be used on fires.

6 **ACCIDENTAL RELEASE MEASURES**

Conservation and Recovery Act (RCRA) regualtions (40 CFR 261).

Borates may damage trees and vegetation. For dry spills, sweep, vacuum, or shovel and place in containers for disposal in accordance with applicable regulations. Avoid contamination of bodies of water during cleanup. Can cause localized contamination of surrounding waters depending on amount dissolved in these waters. Some damange to local vegetation, fish, and other aquatic life may be expected. Under usual conditions, no protective equipment is required. Remove any intact containers from water where possible. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its normal environmental background level. Product is a non-hazardous waste when spilled or disposed of, as defined in the Resource

Vacuum or sweep the material into a bag or other sealed container and dispose in accordance with local requirements.





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7 **HANDLING AND STORAGE**

Handling Precautions: No special handling precautions are required.

Storage Requirements: Dry, indoor storage is recommended. To maintain package integrity and to minimize caking of the

product, bags should be handled on a first-in, first-out basis. Good housekeeping procedures shouldbe followed to minimize dust generation and accumulation. The product should be kept away from strong

reducing agents.

8 **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

Use goggles or vented safety glasses in excessively dusty contitions. In poorly ventilated areas you **Personal Protective Equip:**

must wear a supplied air respirator.

Symptoms of accidental overexposure to Borates have been associated with ingestion or absorption through large areas of damaged skin. These may include nausea, vomiiting, and diarrhea, with delayed effects of skin redness and peeling.

PHYSICAL AND CHEMICAL PROPERTIES 9

Appearance: White granule or powder

Spec Grav./Density: 1.71

1575 deg C @ 760.00mm Hg **Boiling Point:**

Vapor Pressure: Negligible @ 20C

9.3 (.1% solutions); 9.2 (1.0 % solution) pH:

Molecular weight: 381.37 Molecular Formula: Na2B4O7.10H2O

Solubility: 4.71% @ 20C; 65.64% @ 100C Freezing/Melting Pt.: 62C (144F) heated in closed space

10 STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions.

Materials to Avoid: Strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas that could

create an explosive hazard.

Hazardous Decomposition: none

Hazardous Polymerization: Will not occur.



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TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral (LD 50): Low acute oral toxicity. LLD50 in rats is 4,500 to 5,000 mg/kg of body weight.

Inhalation (LC 50): Low acute inhalation toxicity. LC50 ini rats is greater than 2.0 mg/L

Skin irritation: Low acute dermal toxicity; LD50 in rabbits is greater than 10,000 mg/kg of body weight. Poorly absorbed thorugh intact skin. Non irritant.

Eye irritation: Draize test in rabbits produced eye irritation effects. Fifty years of occupational exposure to borax 5 mol indicates no adverse effects on human eye. Not considered to be a human eye irritant in normal industrial use.

Sensitation: Not a skin sensitizer.

Reproductive/developmental toxicity: Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. Doses administered were many times in excess of those to which humans would normally be exposed.

Carcinogenicity/mutagenicity: No evidence of carcinogenicity in mice. No mutagenic activity was observed for boric acid in a matter of short term mutagenicity assays.

Human data: Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to sodium borate dust. A recent epidemiology study under the conditions of normal occupational exposure to borate dusts indicated no effect on fertility.

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ECOLOGICAL INFORMATION

General: Boron is the element in borax 5 mol which is used by convention to report borate product ecological effects. It occurs naturally in seawater at an average concentration of 5 mg B/L and generally occurs in fresh water at concentration up to 1 mg B/L. In dilute aqueous solutions the predominant boron species present is undissociated boric acid.

Phytotoxicity: boron is an essential micronutrient for healthy growth of plants; however, it can be harmful to boron sesitive plants in large quantities. Care should be taken to minimize the amount of boron released to the environment.

Algal toxicity: Green algae. Scenedesmus subspicatus 96hr EC10 = 24 mg B/L

Invertebrate toxicity: Daphnids, Daphnia magna straus 24hr EC50= 242 mg B/L

Fish toxicity:sea water9: Dab, Limanda limanda 96hr LC50= 74mg B/L

Fresh water10: Rainbow trout, S. gairdneri(embryo-larbal stage)

24-day LC50 = 88 mg B/L

32-day LC50 = 54 mg B/L

Goldfish, Carassius auratus (embryo-larval stage)

7-day LC50 = 65 mg B/L 3-day LC50 = 71 mh B/L

Test substance: sodium tetraborate





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DISPOSAL CONSIDERATIONS

Small quantities can usually be disposed of at landfill sites. No special disposal treatment is required, but local authorities should be consulted about any specific local requirements. Tonnage quantities of product are not recommended to be sent to landfills. Such product should, if possible, be used for an appropriate application.

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TRANSPORT INFORMATION

Not hazardous product according to these transport classifications.

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REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Borax (B4Na2O7.10H2O) (1303964 n/a%) MASS, OSHAWAC, PA, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List OSHAWAC = OSHA Workplace Air Contaminants PA = PA Right-To-Know List of Hazardous Substances TSCA = Toxic Substances Control Act TXAIR = TX Air Contaminants with Health Effects Screening Level

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OTHER INFORMATION

Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

^{*}Borates, tetra, sodium salts (decahydrate) (1303964 n/a%) MASS, OSHAWAC, PA, TSCA, TXAIR