

GHS Safety Data Sheet

Rose Mill Co.

Boric Oxide

MSDS Number: rm-anhybor Revision Date: 12/8/2014

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PRODUCT AND COMPANY IDENTIFICATION

Product Name: Boric Oxide Revision Date: 12/8/2014 Version: 1.1

MSDS Number: rm-anhybor Common Name: Boric Oxide **CAS Number:** 1303-86-2 **EPA Number:** 40 CFR 261 40 CFR 261 **RCRA Number: Chemical Family: Borates Chemical Formula:** B2O3

Synonyms: Anhydrous boric acid, Boron trioxide, diboron trioxide

Supplier:

Rose Mill Company 100 Brook Street

West Hartford, CT 06110

860-232-9990 (Phone) 860-232-9995 (Fax)

www.RoseMill.com info@RoseMill.com

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.

No target organs have been determined in humans. **Target Organs:**

Inhalation: Mild irritation to nose and throat may occur when the PEL or TLV are exceeded.

Skin Contact: Non-irritating to intact skin.

Eve Contact: May cause irritation.

Ingestion: Not intended for digestion. Amounts greater than one teaspoonful, when ingested, may cause gastrointestinal

problems.

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.

3 **COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients:

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Cas # | Percentage Chemical Name

1303-86-2 >99% Boron oxide (B2O3)

4 **FIRST AID MEASURES**

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

Non-irritating to intact skin. **Skin Contact:**

Eye Contact: Flush with large amounts of water or saline solution, occasionally lifting upper and lower lids, until no evidence of

powder remains (approx 15-20mins). Get medical attention if aggravation persists.

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

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

5 **FIRE FIGHTING MEASURES**

Flammability: None Flash Point: None

Any fire extinguishing media may be ussed on nearby fires.

ACCIDENTAL RELEASE MEASURES

Borates may damage trees and vegetation. For dry spills, sweep, vacuum, or shovel and place in containers for disposal in accordance with applicable regulations. Avoide contamination of bodies of water during cleanup. Can cause localized contamination of surrounding waters depending on amount dissolved in these waters. Some damage 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 Conservation and Recovery Act (RCRA) regualtions (40 CFR 261).

Vacuum or sweep any dry 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).

Personal Protective Equip: Goggles; In poorly ventilated areas you must wear a supplied air respirator. Gloves;

Signs and symptoms of exposure: Symptoms of accidental over-exposure to anhydrous borax have been associated with ingestion or absorption through large areas of damaged skin. These my include nausea, vomiting, and diarrhea with delayed effects of skin redness and peeling.

9 PHYSICAL AND CHEMICAL PROPERTIES

White, ordorless, granular or powdered substance. Appearance:

Spec Grav./Density: Odorless **Vapor Pressure:** negligible @ 20C (68F) Solubility: 4.0%@20C

pH: 5.1 Aqueous solution (1.0 % solutions) Freezing/Melting Pt.: 450-465C (842-869F)

Molecular weight: 69.6

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:** None

11 **TOXICOLOGICAL INFORMATION**

Reproductive toxicity: Animal feeding studies in rats, mice and dogs at high doses have demonstrated effects on fertility and testes.

12 **ECOLOGICAL INFORMATION**

Boron is an essential micronutrient for healthy growth of plants, however, it can be harmful to boron sensitive plants in high quantities. Care should be taken to minimize the amount of borate product released to the environment. Boron occurs naturally in sea water at an average concentration of 5 mg B/l and fresh water at 1 mg B/l. In dilute agueous solutions the predominant boron species present is undisassociated boric acid.





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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

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).

^{*}Boron oxide (B2O3) (1303862 n/a%) MASS, OSHAWAC, PA, TSCA, TXAIR