

P337+P313

If eye irritation persists get medical advice/attention

P405

Store locked up

P403+P233

Store in a well ventilated place. Keep container tightly closed

P501

Dispose of contents/container in accordance with local/regional/national/international regulations

Danger



Section 3: Composition/Information on Ingredients

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Boron oxide (B2O3) 1303-86-2 40 to 50%	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	NIOSH: 10 mg/m3 TWA
Trade Secret 40 to 50%			

Section 4: First-aid Measures

Inhalation

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

Eye Contact

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

Skin Contact

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

Ingestion

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5: Fire-fighting Measures

LEL:

UEL:

Extinguishing Media

Use media suitable for the surrounding fires.

Specific Hazards Arising from the Chemical

None known

Special Protective Equipment and Precautions for Firefighters

Special Information: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Spill and Leak Procedures

Vacuum, shovel or sweep up and place in containers for disposal. Avoid contamination of water bodies during cleanup and disposal.

Section 7: Handling and Storage
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Handling Procedures

Use with adequate ventilation. Avoid breathing dusts, mists, and vapors. Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

STORAGE: Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

Section 8: Exposure Control/Personal Protection
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Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Boron oxide (B2O3) 1303-86-2	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	NIOSH: 10 mg/m3 TWA
Trade Secret N/A			

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

SKIN PROTECTION: Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

HYGENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

Section 9: Physical and Chemical Properties
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<p style="text-align: center;">Appearance: White to off-white granular</p> <p style="text-align: center;">Vapor Pressure: Unknown</p> <p style="text-align: center;">Vapor Density: Unknown</p> <p style="text-align: center;">Density: Unknown</p> <p style="text-align: center;">Freezing point: Unknown</p> <p style="text-align: center;">Boiling range: Unknown</p> <p style="text-align: center;">Evaporation rate: Unknown</p> <p style="text-align: center;">Explosive Limits: Unknown</p> <p style="text-align: center;">Autoignition temperature: Unknown</p> <p style="text-align: center;">Viscosity: Unknown</p>	<p style="text-align: center;">Odor: Odorless</p> <p style="text-align: center;">Odor threshold: Unknown</p> <p style="text-align: center;">pH: 6.5 - 7.5 (5% solution)</p> <p style="text-align: center;">Melting point: Unknown</p> <p style="text-align: center;">Solubility: Complete</p> <p style="text-align: center;">Flash point: Unknown</p> <p style="text-align: center;">Flammability: Unknown</p> <p style="text-align: center;">Specific Gravity: Unknown</p> <p style="text-align: center;">Decomposition temperature: Unknown</p> <p style="text-align: center;">Grams VOC less water: Unknown</p>
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Section 10: Stability and Reactivity

Chemical Stability:

STABLE

Incompatible Materials

Acids. Reaction with strong reducing agents, such as metal hydrides or alkali metals, will

generate hydrogen gas, which could create an explosive hazard.

Conditions to Avoid

Excessive heat.

Hazardous Decomposition Products

Carbon dioxide.

Hazardous Polymerization

Hazardous polymerization will not occur.

Section 11: Toxicology Information

Mixture Toxicity

Routes of Entry:

- Inhalation
- Ingestion
- Skin contact
- Eye contact

Eyes Skin Respiratory System

Effects of Overexposure

Emergency Overview

Little or no hazard to humans and has low acute oral and dermal toxicity.

Acute Health Effects

Occasional mild irritation effects to nose and throat may occur from inhalation of dust .

Section 12: Ecological Information

Component Ecotoxicity

Boron oxide (B2O3)	48 Hr EC50 Daphnia magna: 370 - 490 mg/L
Trade Secret	96 Hr LC50 Lepomis macrochirus: 8250 - 9000 mg/L [static]
	48 Hr EC50 Daphnia magna: 2350 mg/L

Section 13: Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14: Transportation Informations

Refer to Bill of Lading or container label for DOT or other transportation hazard classification, if any .

Section 15: Regulatory Information

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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Section 16: Other Information

Disclaimer

The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.