

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: PRODUCT IDENTIFICATION

SECTION 2: HAZARDS IDENTIFICATION

Classification: Reproductive Toxicity, Category 1B

GHS Pictograms: GHS08 (Health Hazard)

Signal Word: Danger

Hazard Statements: May damage fertility or the unborn child.

Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read. Wear protective gloves/eye protection. IF exposed or concerned: Get medical attention.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Composition: Boron (B): 17%, Boric Acid (H_3BO_3): 99.5%

SECTION 4: FIRST AID MEASURES

Inhalation: Remove person to fresh air. Seek medical attention if symptoms develop.

Skin Contact: Wash with water and soap. Seek medical attention if irritation persists.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use appropriate media for surrounding fire. Product is non-combustible.

Specific Hazards: May emit toxic boron oxides when heated to decomposition.

Protective Equipment for Firefighters: Wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid breathing dust. Wear appropriate PPE. Pregnant women should avoid exposure.

Environmental Precautions: Prevent entry into waterways.

Methods for Cleanup: Sweep up and collect in appropriate containers.

SECTION 7: HANDLING AND STORAGE

Handling: Handle with care. Pregnant women should avoid handling. Wash hands thoroughly after handling.

Storage: Store in cool, dry area. Keep containers tightly closed.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: ACGIH TLV: 2 mg/m³ (inhalable fraction)

Engineering Controls: Provide adequate ventilation.

Personal Protective Equipment: Eyes: Safety goggles. Skin: Protective gloves. Respiratory: Dust mask or respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions

Chemical Stability: Stable under recommended storage conditions

Incompatible Materials: Strong oxidizing agents, strong bases

Hazardous Decomposition Products: Boron oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 (oral, rat): 2660 mg/kg. Moderately toxic if ingested.

Skin Corrosion/Irritation: May cause mild skin irritation

Serious Eye Damage/Irritation: May cause eye irritation

Sensitization: Not a known sensitizer

Reproductive Toxicity: May damage fertility or the unborn child (Category 1B)

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: Toxic to aquatic organisms

Persistence and Degradability: Persistent in environment

Bioaccumulative Potential: Low potential

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number: Not classified as dangerous goods

Proper Shipping Name: Boric Acid

Transport Hazard Class: Not regulated

Packing Group: Not applicable

SECTION 15: REGULATORY INFORMATION

WARNING: This product contains boron. Use only as directed. Harmful to reproductive health.

SECTION 16: OTHER INFORMATION

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Disclaimer: The information provided in this Material Safety Data Sheet is correct to the best of our knowledge at the date of publication. This information is designed only as a guide for safe handling, use, storage, transportation, and disposal and should not be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

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