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#### Section I. Identification of Product.

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Substance: Cyclohexylboronic Acid

CAS Number: 4441-56-9

Molecular Formula: C<sub>6</sub>H<sub>13</sub>BO<sub>2</sub>

Molecular Weight: 127.98

DOT Shipping Name: Cyclohexylboronic Acid, Non-Hazardous.

DOT Hazardous Class: Not Regulated

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#### Section II. Hazardous Ingredients.

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Name	%	OSHA-PEL	ACGIH-TLV
None		NA	NA

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#### Section III. Physical Data and Characteristics

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Appearance and Odor: White crystalline solid, essentially no odor.

Melting Point: 122-123 deg C

Boiling Point: Unknown

Flash Point: NA

Vapor Pressure: (mm Hg at): NA

Specific Gravity (H<sub>2</sub>O = 1): NA                      pH: N/A

Water Solubility: ~2.5%

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#### Section IV. Fire and Explosion Data.

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Fire Extinguishing Agents Recommended: Water Fog, CO<sub>2</sub>, dry chemical powder, or appropriate foam.

Fire Extinguishing Agents to Avoid: None

Special Fire fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: May emit irritating fumes under fire conditions.

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#### Section V. Health Hazard Data and First Aid Procedures

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Inhalation: Irritating to respiratory tract. Remove individual to fresh air. If breathing is difficult administer oxygen, and seek medical attention.

Ingestion: May be highly irritating to the gastrointestinal tract. Seek medical attention.

Skin: Can produce irritation. Immediately flush skin with copious amounts of water. If redness or rash persist, seek medical attention.

Eyes: Will cause irritation and possible damage to the eyes. Immediately flush eyes with copious amounts of water for at least 15 minutes. Seek medical attention.

Unusual Chronic Toxicity: None known.

Toxicity Information: None Available

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#### Section VI. Reactivity Data.

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Stability: Product will decompose in ambient air. **Must be refrigerated at all times.**

Incompatibility: Avoid strong acids.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: None expected.

Conditions to Avoid: Exposure to air and ambient temperatures, acids, strong oxidizers.

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#### Section V11. Environmental

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Large Spills: Contain the spill, wet the material with a light water spray, and place into appropriate containers for disposal.

Small Spills: Contain the spill, wet the material with a light water spray, and place into appropriate containers for disposal.

The material is Non-Hazardous, however, disposal should be done only through an approved waste disposal facility.

SARA Title III Reporting Requirements:

Section 311/312 Inventory Reporting Hazard Categories: Acute

Section 313 Release Reporting: Reporting not required.

Reportable Quantity: Not Applicable

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Section VIII. Special Protective Information.

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Respiratory Protection: Wear approved respiratory protection to protect against inhalation of dust particles.

Eyes and Face: Chemical safety goggles, cleaned daily.

Hands, Arms, and Body: Rubber gloves and apron or protective suit to avoid skin contact.

Other Clothing and Equipment: NA

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Section IX. Special Precautions.

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Precautions to be taken in handling and storing: **Store in a refrigeration unit.** Protect against physical damage.  
Keep containers closed.

Normal Handling: Open carefully and avoid generation of dust particles.

Observe all Federal, State and local regulations when storing, processing, or otherwise using this product.

Other Information: NA

Creation Date: 10/17/02

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