

Safety Data Sheet

Borathor Granular Scatter Bait

Emergency Phone
Health 1-800-369-4352 (Propharma)
Environmental 1-800-535-5053 (Infotrac)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Borathor Granular Scatter Bait
Chemical Name: Disodium octaborate tetrahydrate
Recommended use of the chemical and restrictions on use: Insecticide

Company: Ensystem II, Inc.
Address: 202 Fairway Dr., Fayetteville, NC 28305
Daytime Phone: 1-888-398-3772

2. HAZARDS IDENTIFICATION

Hazard classification

Health
Acute Toxicity Oral Category 4
Specific Target Organ Toxicity – Repeat Exposure Category 2
Environment
Aquatic Acute Toxicity Category 3

Label Elements
Hazard pictograms

None Required

Signal Word: Warning!

Hazards
None required

Precautionary Statements
None required

3. COMPOSITION / INFORMATION ON INGREDIENTS

Boric Acid	CAS # 10043-35-3	Weight % - 5
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4. FIRST-AID

Description of first-aid measures

General advice: First-Aid responders: No special protective clothing is required.

Inhalation: If symptoms such as nose or throat irritation are observed, move person to fresh air. If symptoms persist seek medical attention.

Eye Contact: Hold eye open and rinse slowly and gently with water for at least 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a doctor for treatment advice.

Skin Contact: Wash skin thoroughly with soap and water. If irritation develops seek medical attention. Launder clothes before reuse.

Ingestion: Do not induce vomiting unless directed to do so by a medical professional. If larger amounts are ingested seek medical attention, or if symptoms occur or if victim feels unwell.

Most important symptoms and effects, both acute and delayed: May cause eye and skin irritation. Inhalation of dusts may cause a mild irritation of the mucous membranes and respiratory system. Harmful if swallowed. Repeated ingestion may cause damage to the kidneys.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Supportive care only is required for adult ingestion of less than a few grams of product. If large amounts have been ingested, maintain fluid and electrolyte balance and maintain adequate kidney function. Gastric lavage is only recommended for those exposed to large quantities of product.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: No restrictions, use media appropriate for surrounding fire.

Special hazards arising from the chemical: Fine particles may present an explosion hazard if suspended in air. Combustion of product may produce carbon oxides (CO_x)

Special protective equipment for firefighters: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. Do not allow water to run off into sewers, streams or other water sources.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate and post spill area. Wear appropriate safety clothing, respiratory protection devices and eye/face protection if environment is dusty (see Section 8). Evacuate unprotected personnel that are nearby.

Environmental precautions: Keep people and animals away from and upwind of spill or leak. Prevent from entering into soil, ditches, sewers, waterways and /or groundwater. Product is water soluble and may cause serious damage to trees or vegetation by root absorption. See Section 12, Ecological Information

Methods and materials for containment and cleanup:

Small spills: Sweep or use shovel to collect all spilled material. Large spills: Contact Ensystex Inc. for cleanup assistance. See Section 13, Disposal considerations, for additional information.

7. HANDLING AND STORAGE

Handling: Use good personal hygiene. Avoid contact with eyes, skin and clothing. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

Do not eat, drink or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating area.

Storage: Keep out of reach of children. Product should be stored in compliance with local regulations. Store in a well ventilated, cool, dry area. Store in original container.

Incompatible products: None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Applicators should refer to the product label for personal protection equipment requirements during application.

Boric Acid 10043-35-3	ACGIH TWA (inhalable TLV)	2 mg/m ³
Boric Acid 10043-35-3	ACGIH STEL (inhalable TLV)	6 mg/m ³

Engineering Controls: Use adequate ventilation to maintain exposure levels below the occupational exposure limits. Refer to product label.

Respiratory Protection: In operations where exposure levels are exceeded, wear a NIOSH approved respirator with a dust/mist cartridge appropriate for the formulation and type of pesticide product. Choice of appropriate NIOSH approved respirator must be in accordance with OSHA 1910.134.

Skin Protection: Use gloves for normal application of the product.

Eye Protection: Wear safety glasses or goggles to prevent contact with eyes.

Other: Wear long-sleeve shirt, long pants, socks and shoes when using this product. Make available location to wash hands after use of product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor: Brown granule, slight odor

Vapor Density: Not determined

Flash Point/Range: >234°C/ > 451°F TOC

Water solubility: Not soluble

Melting Point: NA

Auto-ignition temperature: N/A

Relative density: 0.62 (Water=1)

Percent volatile: Minimal

Viscosity: N/A

Flammability (solid, gas): Fine granules may form explosive mixtures in air.

10. STABILITY AND REACTIVITY

Reactivity: None under normal use conditions

Chemical Stability: Stable under normal storage conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Avoid generating a fine dust.

Materials to Avoid: None known.

Hazardous Decomposition Products: When heated to decomposition level product will emit carbon oxides (COx).

11. TOXICOLOGICAL INFORMATION

Product toxicity data

Acute Toxicity: Oral LD50/Rat/>5,000 mg/kg; Dermal LD50/Rabbit/>5,050mg/kg

Component toxicity data

Boric Acid: Oral LD50/rat/ 2660-5140 mg/kg; Dermal LD50/rabbit/ >2,000mg/kg

Skin corrosion/irritation

No skin irritation in rabbits.

Serious eye damage/eye irritation

May cause slight irritation to eyes.

Inhalation: Inhalation of dust may cause irritation of the nose, throat and upper respiratory tract.

Sensitization

Non-sensitizing

Chronic: Borates have been shown to have some chronic toxicity in animals that are fed high dosages, but it has not been found to occur in humans.

Information on toxicological effects

Carcinogenicity: Not carcinogenic according to available data.

Neurological effects: Not known to cause neurological effects.

Teratogenic effect: Do data available.

Reproductive toxicity effects:

Method: Three-generation feeding study similar to OECD 416 Two-generation Study

NOAEL in rats for effects on fertility in males is 100 mg boric acid/kg bw equivalent to 17.5 mg B/kg bw.

Prenatal Development Toxicity Study of Boric Acid - OECD Guideline 414

Routes of exposure: Oral feeding study
NOAEL in rats for developmental effects on the fetus including fetal weight loss and minor skeletal variations is 55 mg boric acid/kg.

12. ECOTOXICOLOGICAL INFORMATION

Toxicity

Note: Data values are expressed as boron equivalents. To convert to this product divide the boron equivalent by 0.21.

Disodium octaborate tetrahydrate

Acute toxicity to fish (common dab)

LC₅₀ 48 hour, 74 mg B/L

Acute toxicity to aquatic crustacea (*Daphnia magna*)

LC₅₀ 96 hour, 530 mg B/L

Toxicity to algae/aquatic plants (Green algae)

EC₁₀ 24 mg B/L

Persistence and degradability

This product readily degrades to boron in the environment. Boron is an element found naturally in the environment.

Bioaccumulative potential

Boric acid will not biomagnify through the food chain.

Mobility in soil

Boric Acid is soluble in water and is leachable through normal soil.

Other adverse effects:

None.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods: Improper disposal of excess pesticide is prohibited. If these wastes cannot be disposed of by use according to the label instructions, contact appropriate authorities for guidance.

Contaminated Packaging: Containers must be disposed of in accordance with local, state and federal regulations. Refer to product label for container disposal instructions.

14. TRANSPORT INFORMATION

DOT This material is not a hazardous material as defined by U.S. Department of Transportation 49 CFR Parts 100 – 185

Sea (IMDG): Not regulated

Air (ICAO/IATA): Not regulated.

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not listed under SARA.:

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Acute health hazard	No
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

CERCLA

This product is not listed under CERCLA

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if swallowed or inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Thoroughly wash with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Personal Protective Equipment (PPE): Applicators and handlers must wear waterproof gloves, eye protection, protective clothing (e.g., long sleeve shirt, long pants, shoes plus socks) and NIOSH/MSHA-approved dust/mist respirator (in confined spaces) when utilizing powder or solution.

16. Other Information

Hazard rating System

NFPA

Health	Fire	Reactivity
0	0	0

HMIS

Health	Fire	Physical Hazard
1	0	0

Disclaimer: The information of this SDS is based on the present state of our knowledge. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.