SAFETY DATA SHEET

Health Emergencies: CHEMTREC® (800) 424-9300

1. PRODUCT AND COMPANY INFORMATION

Product Identity: Niban-FG® Fine Granular Bait

Recommended use of the chemical and restrictions on use: A weather/moisture resistant bait to kill and control ants (except fire ants), carpenter ants, cockroaches, crickets, mole crickets, earwigs, silverfish, snails, and slugs. Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal law to use this product in a manner inconsistent to label directions.

Manufacturer: Nisus Corporation
100 Nisus Drive
Rockford, TN 37853

Telephone: Phone: (800) 264-0870
Fax: (865) 577-5825

Emergency Phone: 800-424-9300 (CHEMTREC)

SDS Date of Preparation: 4/28/15

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical	Health	Environment
Not Hazardous	Acute Toxicity Oral Category 4 Specific Target Organ Toxicity – Repeat Exposure Category 2	Aquatic Acute Toxicity Category 3

GHS Label Elements:
None Required

Statements of Hazard
None Required

Precautionary Statements
None Required

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Boric Acid	10043-35-3	5%
Non-Hazardous Ingredient	Proprietary	95%

The exact formulation is being withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Flush victim's eyes with large quantities of water, while holding the eyelids apart. Get medical attention if irritation develops or persists.
Skin: Wash skin thoroughly with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.
Ingestion: Do not induce vomiting unless directed to do so by a medical professional. Get medical attention for large ingestions or if symptoms develop or if you feel unwell.

Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.
Most important Symptoms: May cause eye and skin irritation. Inhalation of dust may cause mild mucous membrane and respiratory irritation. Harmful if swallowed. Repeated ingestion may cause kidney damage.

Indication of immediate medical attention/special treatment: Immediate medical attention is required for large ingestions.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use media appropriate for surrounding fire.
Specific hazards arising from the chemical: Fine particles may present an explosion hazard if suspended in air. Burning may produce carbon monoxide and carbon dioxide.

Special Protective Equipment and Precautions for Fire-Fighting Instructions: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Contain runoff.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate protective clothing as described in Section 8. Do not apply directly to water or contaminate water.

Methods and Materials for Containment and Cleaning Up: Collect and place in appropriate containers for disposal. Avoid generating dust. Clean spill area thoroughly. Prevent spill from entering sewers and watercourses. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with the eyes, skin and clothing. Avoid breathing dusts. Wear protective clothing and equipment as described in Section 8. Wash thoroughly with soap and water after handling. Remove contaminated clothing immediately and wash before reuse. Remove PPE immediately after handling. Wash thoroughly after using and change into clean clothing. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Keep containers closed when not in use. Refer product label for additional information on use and handling.

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a dry area away from incompatible materials. Do not store where children or animals may gain access.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Boric Acid	2 mg/m^3 TWA ACGIH TLV (inhalable) 6 mg/m^3 STEL ACGIH TLV (inhalable)

Engineering Controls: Use with adequate ventilation to maintain exposure levels below the occupational exposure limits. Refer product label for additional information.
Respiratory Protection: In operations where exposure levels are exceeded, a NIOSH approved respirator with dust/mist cartridges appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice. Refer to the product label for additional information.
Skin Protection: Use gloves for normal application of this product.
Eye Protection: Wear safety glasses to prevent eye contact.
Other: Wear long-sleeve shirts, long pants, socks and shoes when using this product. Suitable washing facilities should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: Brown, granular particles with no odor.
Physical State: Granular particles **Odor Threshold:** Not established
Vapor Density: Not determined
Initial Boiling Point/Range: Not determined
Solubility In Water: Not soluble **Vapor Pressure:** Negligible
Relative Density: 0.62 of water **Evaporation Rate:** N/A
Melting/Freezing Point: N/A **pH:** N/A
Percent Volatile: Minimal **Octanol/Water Coefficient:** N/A
Solubility: Not soluble **Decomposition Temperature:** N/A
Viscosity: N/A
Flammability (solid, gas): Fine dust may form explosive mixtures in air
Flashpoint: >451°F (233°C) TOC **Autoignition Temperature:** None
Flammable Limits: LEL: Not determined **UEL:** N/A

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive
Chemical Stability: Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions: None known.
Conditions to Avoid: Avoid generating fine dust.
Incompatible Materials: None known
Hazardous Decomposition Products: When heated to decomposition emits carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:
Ingestion: May be harmful if large quantities are ingested.
Inhalation: Inhalation of dust may cause irritation of the nose, throat and upper respiratory tract.
Eye: May cause slight irritation.
Skin: Not expected to cause irritation.
Chronic: Borates have been shown to have some chronic toxicity in animals fed high doses, but this has not been found in humans.
Sensitization: This material is not expected to cause sensitization.
Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.
Germ Cell Mutagenicity: No data available
Reproductive Toxicity: Borates have been found to have some reproductive toxicity in animals, but this has not been found in humans.

Numerical Measures of Toxicity:
Product Toxicity Data:
Oral rat LD_{50}: >5000 mg/kg; Dermal rabbit LC_{50}: >5050 mg/kg

12. ECOLOGICAL INFORMATION

This product breaks down naturally in the environment to provide organic matter and boron micro nutrients. Boron occurs naturally in sea water at an average concentration of 5 mg B/l and fresh water at 1 mg B/l or less. In dilute aqueous solutions the predominant boron species present is undissociated boric acid.

Ecotoxicity:
EC_{10} Green Algae: 24 mg B/l; LC_{50} *Daphnia magna*: 530 mg B/l/96 hr; LC_{50} Dab: 74 mg B/l/48hr; LC_{50} Rainbow Trout: 88 mg B/l/24hr; LC_{50} Goldfish: 71 mg B/l/72hr

Persistence and Degradability: Boron is naturally occurring and ubiquitous in the environment. Niban-FG decomposes in the environment to natural borate.
Bioaccumulative Potential: Not determined.
Mobility in Soil: Boric acid is soluble in water and is leachable through normal soil.
Other Adverse Effects: Some plants are sensitive to boron. This product is designed to be used for certain types of insects. Use product only as directed on the label. See product label for full instructions and restrictions on use.

13. DISPOSAL CONSIDERATION

Dispose in accordance with local, state and federal environmental regulations. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Non-refillable container: do not reuse or refill this container. Completely empty container into application equipment, then offer for recycling, if available; otherwise dispose of empty container in a sanitary landfill or by incineration. For guidance contact your state water board or regional office of the EPA.

14. TRANSPORTATION INFORMATION

DOT Hazardous Materials Description: Not Regulated
Sea Transport IMDG, not classified as dangerous
Air Trasnport IATA/ICAO, not classified as dangerous

15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

FIFRA Labeling:

Niban-FG Fine Granular Bait
EPA Reg. No. 64405-2
Keep Out of Reach of Children
CAUTION
PRECAUTIONARY STATEMENTS
Hazards to Humans & Domestic Animals

Caution: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

CERCLA: This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA Hazard Category (311/312): Not hazardous

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

None

EPA TSCA Inventory: This product is regulated under FIFRA, thus exempt.

16. OTHER INFORMATION

NFPA Rating:
Health = 0 Flammability = 0 Instability = 0

HMIS Rating:
Health = 1 Flammability = 0 Physical Hazard = 0

SDS Revision History: 01/07/14: New SDS
04/28/15: Revised

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