

# NIBAN<sup>®</sup>

## Broad spectrum attack.

### MAKE A KILLING.



Labels are printed in black & white to be discrete in the field.

Niban offers pest management professionals a perimeter bait that stands alone and practically eradicates call backs. Its active ingredient is a 5% boric acid. Each granule carries patented insect food attractants and food grade oils to give the bait not only excellent insect attraction and efficacy, but also long-term protection against moisture and spoilage.

Apply in a band application around structures for the control of ants, cockroaches, earwigs, crickets, snails and slugs; also apply into attics, voids, cracks, crevices, cabinets and trash chutes for the control of ants, cockroaches, crickets and silverfish.

**Niban is considered a Green Pest Management<sup>®</sup> product and is OMRI Listed.<sup>®</sup> It's the "original" boric acid granular bait of the pest industry and is backed by independent product-specific research.**

- Listed pests include multiple species of ants, cockroaches and crickets as well as silverfish, earwigs, slugs and snails.
- Labeled for use on all structures, golf courses, playing fields, parks, green houses, interiorscapes and meat and poultry plants.
- Weatherized: Won't degrade in heat or sunlight and lasts through 4" of rain without molding.
- Proven superior attractants with a broad spectrum kill.
- Kills the whole ant colony.
- Good for indoor and outdoor treatment.
- Has virtually no odor. Can be used indoors in sensitive areas.
- Non-staining formulation can be used on wood decks and concrete walkways.
- Mega-mix of attractants to increase uptake by pests year-round.
- Provides excellent perimeter treatments.
- Delivers significantly greater performance against slugs & snails than iron phosphate.
- Metaldehyde-free, borate-based and formulated with a concern for the environment.

Visit [www.nisuscorp.com](http://www.nisuscorp.com) for the complete line of green products.

100 Nisus Drive ■ Rockford, TN 37853 ■ (800) 264-0870 ■ [www.nisuscorp.com](http://www.nisuscorp.com)





**A Weather/Moisture Resistant Bait to Kill and Control Ants (except fire ants), Carpenter Ants, Cockroaches, Crickets, Mole Crickets, Earwigs, Silverfish, Snails and Slugs**

**ACTIVE INGREDIENT:**

Orthoboric Acid ..... 5.0%

**OTHER INGREDIENTS** ..... 95.0%

**TOTAL** ..... 100.0%

EPA Reg. No. 64405-2

EPA Est. 64405-TN-1

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you.)

**FOR BOTH INTERIOR AND EXTERIOR USE**

For Use In and Around the following: Above-ground Transformers, Aircraft, Apartments, Apartment Buildings, Boats, Buses, Campgrounds, Camps, Cemeteries, Commercial Ornamental Nurseries, Factories, Federally Inspected (USDA) Meat and Poultry Plants, Flower Gardens, Food Handling Establishments, Food Processing Plants, Garages, Greens of Golf Courses, Grocery Stores, Groundcovers, Homes, Home Lawns, Hospitals, Hotels, -Industrial Plants, In-ground Utility Boxes, Interiorscapes, Kennels, Lath Houses, Lawns, Libraries, Markets, Military Bases, Mobile Homes, Motels, New Construction, Nursing Homes, Offices, Ornamental Home Greenhouses, Ornamental Turf, Ornamentals, Other Structures, Parks, Pedestal Boxes, Pet Stores, Picnic Areas, Playing Fields, Public and Private Institutions, Recreational Turf, Recreational Vehicles, Restaurants, Restaurants (non-food areas), Schools, Sewers, Ships, Shrubs, Stores, Supermarkets, Theaters, Trains, Trucks, Utilities, Vending Machines, Warehouses, Yachts, Zoos.

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans & Domestic Animals**

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

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and handlers must wear: Long-sleeved shirt and long pants; water-proof gloves; and shoes plus socks. Follow manufacturer's instructions for cleaning/ maintaining PPE. If no such instructions for washables are given, use detergent and hot water.

**ENGINEERING CONTROLS STATEMENT**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)) the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside; then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

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.

**First Aid**

<b>If in Eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on Skin:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.</p>	

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box apply only to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- coveralls
- waterproof gloves
- shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The Worker Protection Standard applies when this product is used to produce agricultural plants on farms, forests, nurseries or in greenhouses.

### GENERAL INFORMATION

This product is a ready-to-use, weather/moisture resistant bait that controls and kills Ants (except fire ants), Cockroaches, Crickets, Earwigs, Silverfish, Snails and Slugs, specifically: **ANTS:** Argentine, Carpenter, Thief, Pharaoh, Little Black, Pavement, Odorous House and Crazy Ants. **COCKROACHES:** Asian, American, Brown, Brown Banded, Smokey Brown, German and Oriental Cockroaches. **CRICKETS:** Camel, House, Field and Mole Crickets. **SNAILS AND SLUGS. EUROPEAN EARWIGS.**

Do not contaminate this product with other pesticides. If this product becomes contaminated with another pesticide it will lose its effectiveness. Do not apply directly to food and avoid contamination of feed and foodstuff. In commercial food handling facilities, cover or remove any food during application. In food handling and other areas, bait may be placed in removable bait stations. Always record the number and location of bait stations. This product is

designed to be used as a residual treatment in an Integrated Pest Management program incorporating good sanitation practices. This product may be applied in appropriate areas with a power duster (except in California). Consult equipment manufacturer for recommended settings. Keep children and pets out of treatment area until application has been completed. Do not treat pets with this product. Avoid over-application around ornamental plants and fish ponds. Do not apply this product in combination with fertilizers, other pesticides or other biologically-active materials. This product may be applied in appropriate areas with a power duster (Except in California). Consult equipment manufacturer for recommended settings. Keep children and pets out of treatment area until application has been completed. Do not treat pets with this product. Avoid over-application around ornamental plants and fish ponds. Do not apply this product in combination with fertilizers, other pesticides or other biologically-active materials.

### APPLICATION INSTRUCTIONS

**To Control and Kill Ants (except fire ants), Cockroaches, Crickets, Mole Crickets, Snails and Slugs on Campgrounds, Cemeteries, Greens of Golf Courses, Home Lawns, Lawns, Ornamental Turf, Parks, Picnic Areas, Playing Fields and Recreational Turf:** Apply bait evenly to affected areas at the rate of 2 pounds per 1,000 square feet (3.2 ounces or 2/3 cup per 100 square feet). **When treating for mole crickets:** Thoroughly irrigate treatment areas in the late afternoon prior to application. For maximum effectiveness, do not irrigate treated area immediately after application.

**Exterior Baiting to Control and Kill Snails and Slugs in Commercial Ornamental Nurseries, Flower Gardens and Around Ornamentals, Groundcovers and Shrubs:** At the beginning of the spring planting season (before damage occurs), broadcast 6 ounces per 100 square feet in areas likely to be infested with snails and slugs. It is best to apply the bait during early morning or evening when slugs and snails are present and eating. Reapply every four weeks for satisfactory control.

**To Control and Kill Snails and Slugs in Commercial Ornamental Nurseries, Ornamental Home Greenhouses and Lath Houses:** Evenly distribute granules on and under benches at the rate of 6 ounces per 100 square feet. Do not place in flats or pots.

**To Control and Kill Snails and Slugs in Interior-scapes or Ornamental Gardens:** Evenly apply bait to soil at a rate of 6 ounces per 100 square feet no more than once every 4 to 6 weeks.

**Exterior Baiting to Control and Kill Ants (except fire ants), Including Carpenter Ants, Around Apartment Buildings, Commercial Ornamental Nurseries, Food Processing Plants, Garages, Homes, Hospitals, Hotels, Kennels, Motels, Pet Stores, Public & Private Institutions, Recreational Vehicles, Restaurants, Schools, Supermarkets, Warehouses and Other**

**Structures:** Treat exterior perimeter areas of structure in a band 2 to 4 feet wide at a rate of 6 ounces per 100 square feet. Also apply product in a 2 to 4 foot band around all trees, stumps, firewood piles and other locations where carpenter ants may nest. If the nest is located in a hollow tree or stump, apply 1/2 to 1 ounce of product directly into the cavity. Apply along ant trails and in areas where ant activity has been noted.

**To Control and Kill Ants (except fire ants), Cockroaches, Crickets, Earwigs and Silverfish Within and Around the Exterior of Structures such as Apartment Buildings, Food Processing Plants (non-food areas), Garages, Homes, Hospitals, Hotels, Kennels, Motels, Pet Stores, Public & Private Institutions, Recreational Vehicles, Restaurants (non-food areas), Schools, Sewers, Stores, Supermarkets and Warehouses:** Apply at a rate of 4 pounds per 1000 square feet (6 ounces or 1 1/4 cups per 100 square feet) of surface area. Spread evenly in crawl spaces, attics, drop ceilings and cellars with dirt or gravel floors. Concentrate application in areas where insect activity is most prevalent. In attics, be sure to apply in eaves and access drains. In warehouses, garages and basements, concentrate application along walls and baseboards. This product may also be applied in inaccessible areas such as cracks and crevices where insects may hide. Apply in pits of elevator, dumbwaiter and trash chute shafts. Apply under and behind pallets and boxes in storerooms. Bait may also be placed in removable bait stations in areas accessible to insects but inaccessible to children and pets. Always record the location and number of bait stations. Regularly inspect bait stations and replace bait as needed. In sewers, apply along ledges and around manhole entrances. Treat exterior perimeter building walls in a band approximately 2 feet wide and scatter bait in flower beds, leaf litter, wood piles, trash cans and refuse areas. Reapply as necessary.

**For treating new construction:** Apply in wall voids and other areas where insects may hide.

**For perimeter treatments:** Spread bait at a rate of 6 ounces or 1-1/4 cups per 100 square feet in a band at least 2 feet wide around foundations, patios, driveways, -sidewalks, entrances to homes and buildings, or other areas where insects are present. Apply around landscape lighting, floodlights, street lamps or other exterior fixtures and scatter bait in flower beds, leaf litter, wood piles, trash cans and refuse areas. Reapply as necessary.

**For treating ant mounds:** Apply 1/2 to 1 ounce of this product around all ant mounds. Supplement by broadcast application in immediate area and along ant trails and in areas where ant activity has been noted.

**To Control and Kill Ants (except fire ants), Cockroaches, Crickets, Earwigs and Silverfish in: Aircraft, Apartment Buildings, Apartments, Boats, Buses, Camps, Factories, Food Handling Establishments, Food Processing Plants, Garages, Grocery Stores, Homes, Hospitals, Hotels, Industrial Plants, Kennels, Libraries, Markets, Military Bases, Mobile Homes, Motels, New Construction, Nursing Homes,**

**Offices, Pet Stores, Private & Public Institutions, Recreational Vehicles, Restaurants, Schools, Sewers, Ships, Supermarkets, Theaters, Trains, Trucks, Utilities, Warehouses, Yachts and Zoos: Food area application limited to only crack and crevice treatment.** Apply only in areas inaccessible to children and pets. Avoid contamination of feed and foodstuffs. Apply liberally, scattering/dusting under and behind refrigerator, cooler, stove, sink, dishwasher, washing machine and dryer tubs; counters; into openings around drains, water pipes and electrical conduits; and in cracks and crevices along baseboards and corners of cabinets, counter tops, cupboards and closets. Remove all lower drawers in kitchen and bathroom cabinets, bedroom dressers and chests of drawers, then scatter/dust liberally in drawer wells. Bait may also be applied into and around areas of insect infestation of **above-ground transformers, in-ground utility boxes, pedestal boxes and vending machines.** Any bait visible after application must be brushed into cracks and crevices or removed. Reapply as necessary. Bait may also be placed in removable bait stations in areas accessible to insects but inaccessible to children and pets. Always record the location and number of bait stations. Regularly inspect bait stations and replace bait as needed.

**Crack and Crevice Applications In Aircraft, Apartment Buildings, Apartments, Boats, Buses, Camps, Factories, Food Handling Establishments, Food Processing Plants, Garages, Grocery Stores, Homes, Hospitals, Hotels, Industrial Plants, Kennels, Libraries, Markets, Military Bases, Mobile Homes, Motels, New Construction, Nursing Homes, Offices, Pet Stores, Private & Public Institutions, Recreational Vehicles, Restaurants, Schools, Sewers, Ships, Supermarkets, Theaters, Trains, Trucks, Utilities, Warehouses, Yachts and Zoos:** Crack and crevice applications may be made using most types of dust applicators. A bellows type duster works best. Insert stem into gaps, cracks and crevices and apply 2 to 6 puffs per lineal foot, depending upon the severity of the infestation. Drill small holes to gain access into wall voids and under cabinets. This product may also be applied in appropriate areas with a power duster (except in California). Consult equipment manufacturer for recommended settings

#### **Application Sites and Directions:**

1. Apply under and behind appliances in kitchens, bathrooms and utility rooms (remove kick plates if possible).
2. Kitchen and bathroom cabinets and vanities often have a space between the floor and the bottom drawer or cabinet. If a gap exists along the top of the kickplate, dust this product into the void area. If no gaps are present, drill a small hole every two feet along the kickplate drilling at least one hole under each cabinet and apply this product through the holes.
3. Apply in voids around plumbing pipes behind water heaters and under sinks in kitchens, bathrooms,

showers and utility rooms. Pull back escutcheon plates around pipes to allow access to the void.

4. Remove electrical wall socket and switch covers and dust product around boxes and into voids. Do not apply product directly into electrical switch and outlet boxes.

5. Cracks or spaces between the wall and doorframes, cabinets, counter tops, molding or baseboards provide excellent hiding places for roaches and ants. Dust a small amount of this product into these areas wherever possible.

6. Apply under and behind vending machines. If access can be gained to the interior of the machine, apply around the interior base, being careful not to contaminate any foodstuffs.

**To Control and Kill Cockroaches, Crickets, Ants, Earwigs and Silverfish in Federally-inspected (USDA) meat and poultry plants:** For application only in inedible product areas and non-processing areas as a crack and crevice treatment. Apply liberally to cracks and crevices in areas such as around baseboards and in closets; beneath cabinets and appliances, in and around waste containers and into openings around drains, water pipes and electrical conduits. Avoid contamination of feed and foodstuffs. Bait stations may be used. Always record the number and location of bait stations. Regularly inspect bait stations and replace bait as needed. This product is best used as a supplemental residual treatment preceded by approved spray and good sanitation practices.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a dry place. Do not store where children or animals may gain access. **Pesticide**

**Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** 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.

### WARRANTY DISCLAIMER

To the extent not prohibited by applicable law, Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent not prohibited by applicable law, **MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

### Inherent Risks of Use

The directions for use are believed to be adequate and must be carefully followed. It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions, abnormal conditions, the presence of other materials, climatic conditions or the manner of application, all of which are beyond the control of the Manufacturer. To the extent not prohibited by applicable law, the buyer/user assumes all such risks.

### Limitation of Remedies

To the extent not prohibited by applicable law the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories) shall be limited to, at Manufacturer's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent not prohibited by applicable law: a) Manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless Manufacturer is promptly notified of such loss or damage in writing; and b) **IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OR LOSSES, INCLUDING WITHOUT LIMIT, HEALTH RELATED DAMAGES OR INJURIES.**

The terms of this **Warranty Disclaimer** and **Limitation of Remedies** cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Manufacturer or the seller is authorized to vary or exceed the terms of this **Warranty Disclaimer** or **Limitation of Remedies** in any manner.

It is not intended that this product be used to practice any patent not owned by Nisus Corporation, whether mentioned or not, without procurement of a license (if necessary) from the owner following investigation by the user.



100 Nisus Drive • Rockford, TN 37853 USA • 800-264-0870

Niban and Nisus are registered trademarks of Nisus Corporation.

©2012 Nisus Corporation # NB-SL-0612a-SAL111811

Issue Date: 2-16-1993  
Revised: 7-1-2012

# MATERIAL SAFETY DATA SHEET

## NIBAN® GRANULAR BAIT

Health Emergencies: CHEMTREC® (800) 424-9300

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853  
(800) 264-0870 FAX: (865) 577-5825

Product Trade Name: NIBAN® GRANULAR BAIT

Product Class: Pesticide Bait

EPA Reg. No.: 64405-2

Active Ingredient: Boric Acid (5%)

CAS No.: 10043-35-3

Health Emergencies: CHEMTREC® 800-424-9300

### SECTION 2 - INGREDIENTS INFORMATION

This product contains 5% boric acid (other components are cellulose and food attractants) and is not classified as dangerous under the EC Directive 67-548/EEC and subsequent amendments.

### SECTION 3- HEALTH HAZARD INFORMATION

**EYE CONTACT:** Avoid dust contact with eyes. May cause physical eye irritation.

**SKIN CONTACT:** Not an irritant.

**INGESTION:** This material may be harmful if large quantities are swallowed.

**INHALATION:** Breathing dust may cause irritation of nose and throat.

### SECTION 4 - EMERGENCY AND FIRST AID PROCEDURES

**EYE CONTACT:** Flush eyes for at least 15 minutes with clean water. Seek medical attention if irritation persists.

**SKIN CONTACT:** Wash with soap and water.

**INGESTION:** A small amount of Niban (up to ½ pound) will not cause harm.

If large amounts are ingested, induce vomiting and seek medical attention.

**INHALATION:** Remove victim to fresh air. Contact a physician if warranted.

### SECTION 5 - FIRE & EXPLOSION DATA

**FLASH POINT:** >451°F

**EXTINGUISHING MEDIA:** CO<sub>2</sub> dry powder, universal type foam or water.

**FIRE AND EXPLOSION HAZARDS:** None (Organic dusts mixed with air can be explosive)

**FIRE FIGHTING PROCEDURES:** Burning product produces smoke, carbon dioxide and carbon monoxide. Self-contained breathing apparatus should be used as with wood or other cellulose.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**IN CASE OF SPILL OR LEAK:** Dispose of large quantities in approved landfill. Small quantities can be placed in trash.

### SECTION 7 - HANDLING AND STORAGE

Store in dry place.

**RESPIRATORY PROTECTION:** (Not normally needed) Dust mask, if dusting or moving large quantities and producing dust.

**VENTILATION:** Exhaust to ventilate. If used in confined areas, use dust mask.

**PROTECTIVE CLOTHING:** None.

**EYE PROTECTION:** Use dust goggles.

**OTHER PROTECTIVE EQUIPMENT:** None.

### SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Hazard Rating:** NFPA

**Health:** 0

**Fire:** 0

**Reactivity:** 0

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Brown, Granular Particles

**Specific Gravity:** 0.62

**Solubility in water:** N/A

**Volatile by weight:** Some slight loss of water is possible once opened.

**Odor:** None

**pH:** N/A

### SECTION 10 - STABILITY AND REACTIVITY

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Do not dust in air or oxygen with an ignition source. Do not mix with oxidizing agent.

**HAZARDOUS POLYMERIZATION:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** On burning - carbon dioxide and carbon monoxide.

### SECTION 11 - TOXICOLOGY

Acute Oral LD<sub>50</sub> - Greater than 5000 mg/kg (estimated 60,000 mg/kg)

Acute Dermal LD<sub>50</sub> - Greater than 2000 mg/kg (estimated >40,000 mg/kg)

Dermal Irritation - Not a primary irritant

Dermal Sensitivity - Not a sensitizer.

Borates have been shown to have some chronic toxicity in animals fed high doses, similar to that of alcohol, but this has not been found in humans.

### SECTION 12 - ECOLOGICAL INFORMATION

Breaks down naturally in the environment to provide organic matter and boron micro nutrients.

#### ECOTOXICITY DATA

**General:** 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.

#### Algal toxicity:

Green algae, *Scenedesmus subspicatus*

96-hr EC<sub>10</sub> = 24 mg B/l

#### Invertebrate toxicity:

Daphnids, *Daphnia magna* Straus

48-hr LC<sub>50</sub> = 530 mg B/l

21-day NORC\_LOEC = 6-13 mg B/l

#### Fish Toxicity:

Sea water:

Dab, *Limanda limanda*

96-hr LC<sub>50</sub> = 74 mg B/l

Fresh water:

Rainbow trout, *Salmo gairdneri* (embryo-larval stage)

24-day LC<sub>50</sub> = 88 mg B/l

32-day LC<sub>50</sub> = 54 mg B/l

Goldfish, *Carassius auratus* (embryo-larval state)

7-day LC<sub>50</sub> = 65 mg B/l

3-day LC<sub>50</sub> = 71 mg B/l

#### ENVIRONMENTAL FATE DATA

**Persistence/Degradation:** Boron is naturally occurring and ubiquitous in the environment. Niban decomposes in the environment to natural borate.

#### SECTION 13 – DISPOSAL CONSIDERATION

**DISPOSAL METHOD:** Dispose large quantities in landfill in accordance with federal, state and local regulations. Small quantities can be used as bait around homes or placed in household trash.

#### SECTION 14 – TRANSPORT INFORMATION

**INTERNATIONAL TRANSPORTATION:** *Niban Granular Bait* has no UN Number, and is not regulated under international rail, road, water or air transport regulations.

#### SECTION 15 – REGULATORY INFORMATION

**Chemical Inventory Listing:** Boric acid appears on several chemical inventory list under the U.S. EPA TSCA Inventory CAS No. 10043-35-03.

**General:** Ensure all national/local regulations for the safe handling of pesticides are observed.

#### SECTION 16 – OTHER INFORMATION

##### References:

EPA Re-registration Eligibility Decision (RED), Boric Acid and its Sodium Salts, (1993) EPA 738-R-93-017

Borates Even Safer, According to EPA, (2004)

The active ingredient in small quantities is an essential micronutrient for plants and is considered probably essential for humans.

For general information on the toxicology of borates see ECETOX Technical Report No. 63 (1995); Patty's Industrial Hygiene and Toxicology, 4<sup>th</sup> Edition Vol. 11, (1994) Chap. 42, 'Boron'.

*The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This information and product are furnished on the condition that the persons receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use thereof.*



100 Nisus Drive • Rockford, TN 37853 USA  
(800) 264-0870



100 Nisus Drive • Rockford, TN 37853  
800-264-0870