

# Boracide™ Borate Power

**For the Control of Ants, Carpenter Ants, Cockroaches,  
Dampwood Termites, Drywood Termites, Earwigs and Silverfish**

**For Use In and Around Homes, Apartments, Garages, Schools, Offices, Hotels, Motels,  
Hospitals, Aircraft, Trains, Boats, Trucks, Kennels, Zoos, Veterinary Areas,  
Factories, Warehouses, Supermarkets, Restaurants, Food Processing Plants  
and Other Listed Structures**

**Active Ingredient:**

Pentahydrate Borax .....100%

EPA Reg. No. 64405-7

EPA Est. 64405-TN-1

Keep Out of Reach of Children

## CAUTION

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**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.

#### First Aid

<b>If Swallowed</b>	? Immediately call a poison control center or doctor for treatment advice. ? Have person sip a glass of water if able to swallow. ? Do not induce vomiting unless told to do so by the poison control center or doctor. ? Do not give anything by mouth to an unconscious person.
<b>If Inhaled</b>	? Move person to fresh air. ? If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. ? Call a poison control center or doctor for further treatment advice.
<b>If in Eyes</b>	? 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 eye. ? Call a poison control center or doctor for treatment advice.
<b>If on Skin or Clothing</b>	? Take off contaminated clothing. ? Immediately rinse skin with plenty of water for 15-20 minutes. ? Call a poison control center or doctor for treatment advice.

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.

## Environmental Hazards

This product is toxic to fish and wildlife. 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 cleaning equipment or disposing of equipment washwaters.

## Notice

Read and understand the entire label before using. Use only according to label directions. Before buying or using this product, read **Warranty Limitations and Disclaimer** statement found elsewhere on this label. If terms are unacceptable, return unopened package to seller for full refund of purchase price. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under **Warranty Limitations and Disclaimer**.

## DIRECTIONS FOR USE

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

### Storage and Disposal

Do not contaminate food or feed by storage or disposal.

**Storage:** Store in a cool, dry (preferably locked) storage area inaccessible to children and pets. Protect from freezing. **Disposal: If empty:** Do not reuse this container. Place in trash or, if available, offer for recycling. **If partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

## General Information

Do not use in edible product areas of food handling establishments, restaurants or other places where food is commercially prepared. Do not use in serving areas while food is exposed. Do not contaminate feed and foodstuffs.

Use this product in homes, restaurants, markets, schools, warehouses, factories, offices, hotels, motels, hospitals, nursing homes, garages, grocery stores, apartment buildings, new construction, industrial plants, theaters, ships, boats, trains, trucks, yachts, camps, mobile homes, buses, zoos, kennels, military bases, libraries, utilities and sewers.

## Application Instructions

**To Control Ants, Cockroaches and Silverfish,** apply liberally, scattering under and behind refrigerator, stove, sink, dishwasher, washing machine and dryer tubs; into openings around drains, water pipes and electrical conduits; and in cracks and crevices along baseboards and corners of cabinets, cupboards and closets. Remove all lower drawers in kitchen and bathroom cabinets, bedroom dressers and chests of drawers, then scatter liberally in drawer wells.

**Directions for Applying in New and Existing Construction to Control Cockroaches:** When treating large areas, such as wall voids, soffit and subcabinet voids in new and existing construction, dust liberally using dusting application equipment.

**Directions for Applying in New and Existing Construction to Control Carpenter Ants, Drywood Termites and Cockroaches:** When treating areas such as wall voids and electrical lines for carpenter ants, and attics and areas over soffits, out to the gutter plate, for the control and prevention of drywood termites and cockroaches, dust liberally using dusting application equipment. Apply dust directly into insect galleries and cracks and crevices in infested wood.

**Directions for Controlling Fly Larvae in Refuse Containers:** Apply liberally to trash cans or dumpsters as a dust or liquid spray (1 cup of powder per gallon of water).

**Directions for Applying in Sewers and Manhole Cavities:** Apply as a dust at a rate not to exceed 12 oz. per 250 square feet using a blower or air pressure equipment.

**Directions for the Control of Drywood Termites in Infested Wood:** Add 1 cup of powder (approximately four ounces) to each gallon of water and stir until dissolved. Inject solution directly into Drywood termite galleries.

**Directions for the Control of Cockroaches as a Spray Solution:** Add 1 cup of powder (approximately four ounces) to each gallon of water and stir until dissolved. Spray solution directly onto floors, baseboards and other non-food contact areas where insects are prevalent.

**Directions for the Control of Drain Flies in Drains:** Add 1 cup (approximately four ounces) of powder to each gallon of water and stir until dissolved. Pour one quart of solution into each drain at the end of working day.

**Directions for Applying as a Mop Solution to Control Cockroaches:** Add 1 cup (approximately four ounces) of powder to each gallon of rinse water. Apply only to floor areas. Make only enough for each application. This is only a supplemental treatment.

Reapply as necessary. Any powder visible after application must be brushed into cracks and crevices or removed. Apply only in areas inaccessible to children and pets. Do not use in edible product areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed.

### **Crack and Crevice Treatment**

**Food and Feed Handling Establishments:** Places other than private residences in which food or feed is held, processed, prepared or served.

**Food Area Application Limited to Crack and Crevice Treatment Only:** Includes areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas (when food is exposed and facility is in operation) also would be considered a food area.

Apply in small amounts directly into cracks and crevices using a bulbous duster or other suitable equipment capable of applying insecticide directly into cracks and crevices, in points between different elements of construction, between equipment and floors, openings leading to voids and hollow spaces in walls, equipment legs and bases, conduits, motor housing and electrical switch boxes where cockroaches hide.

Avoid depositing the product onto exposed surfaces or introducing the material into the air. Avoid contamination of food or food processing surfaces.

**Applications of this product in the food areas of food handling establishments, other than as a crack and crevice treatment, are not permitted.**

**Serving Areas:** Facilities where prepared foods are served, such as dining rooms, but excluding areas where food may be prepared or held. Apply as a spot treatment to selective surfaces such as baseboards, under elements of construction into cracks and crevices. Do not treat surfaces likely to be contacted by food. Do not apply when facility is in operation or foods are exposed.

**Non-Food Areas:** Including garbage rooms, lavatories, floor drains (to sewer), entries, vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, closets and storage

areas (after canning or bottling). Apply to baseboard areas, around water pipes, surfaces behind and beneath sinks, lockers, tables, pallets and similar areas where insects hide or through which they may enter.

**Cleanup:** Use soap and water to clean up tools.

#### Warranty Limitations and Disclaimer

*Because of varying conditions affecting use and application, manufacturer warns buyer that these may impair or vary the results or effects of the use of this product. Neither the manufacturer nor seller shall be liable in respect to any injury or damage suffered by reason of the use of this product for a purpose not indicated by the label or when used contrary to the directions or instructions hereon or with respect to breach of any warranty not expressly specified herein. Buyer accepts this material subject to these terms and assumes all risk of usage and handling except when used or handled in accordance with this label.*



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<b>Boracide</b> <sup>TM</sup> INSECTICIDE AND FUNGICIDE	<b>Material Safety Data Sheet</b> Date of Issue: November 2003
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SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Boracide  
**Product use:** Insecticide and Fungicide  
**Chemical formula:** Na<sub>2</sub>B<sub>8</sub>O<sub>13</sub> · 4H<sub>2</sub>O  
**Chemical name/synonyms:** Disodium octaborate tetrahydrate  
**Chemical family:** Inorganic borates  
**EPA registration number:** 64405-7  
(Refer to Section 15 for TSCA/DSI, Chemical inventory listing)

**MANUFACTURER:** Nisus Corporation  
100 Nisus Drive  
Rockford, TN 37853  
(800) 264-0870  
Fax: (865) 577-5825

**HEALTH EMERGENCIES:** Chemtrec®  
(800) 424-9300

## SECTION II – HAZARD IDENTIFICATION AND PERSONAL PROTECTIVE EQUIPMENT INFORMATION

**EMERGENCY OVERVIEW:** Boracide is a white, odorless, powdered substance that is not flammable, combustible, or explosive and has low acute oral and dermal toxicity.

**POTENTIAL ECOLOGICAL EFFECTS:** Large amounts of Boracide can be harmful to plants and other species. Therefore, releases to the environment should be minimized.

**POTENTIAL HEALTH EFFECTS:** Routes of exposure: Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern because Boracide is poorly absorbed through intact skin.

**INHALATION:** Occasional mild irritation effects to nose and throat may occur from inhalation of Boracide dust at levels greater than 10 mg/m<sup>3</sup>. **EYE CONTACT:** Boracide is non-irritating to eyes in normal use.

**SKIN CONTACT:** Boracide does not cause irritation to intact skin.

**INGESTION:** Products containing Boracide are not intended for ingestion. Boracide has a low acute toxicity. Small amounts (e.g., a teaspoonful)

swallowed accidentally are not likely to cause effects; swallowing amounts larger than that may cause gastrointestinal symptoms.

**CANCER:** Boracide is not a known carcinogen.

**SIGNS AND SYMPTOMS OF EXPOSURE:** Symptoms of accidental over-exposure to Boracide might include nausea, vomiting, and diarrhea, with delayed effects of skin redness and peeling.

**PERSONAL PROTECTION:** Eye protection, protective clothing, and waterproof gloves may be necessary under certain high exposure conditions. Otherwise, refer to label for actual regulatory personal protection requirements.

**OCCUPATIONAL EXPOSURE LIMITS:** Disodium octaborate tetrahydrate (Boracide) is considered to be a nuisance dust by OSHA, Cal OSHA, and ACGIH. The OSHA/PEL is 15mg/m<sup>3</sup> total dust and 5mg/m<sup>3</sup> respirable dust. The Cal OSHA/PEL and ACGIH/TLV arc 10 mg/m<sup>3</sup>. Use local exhaust or engineering controls to prevent exceeding exposure limits if possible.

## SECTION III – FIRST AID MEASURES

**Inhalation:** If symptoms such as nose or throat irritation are observed, remove person to fresh air.

**Eye contact:** Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

**Skin Contact:** No treatment necessary because non-irritating.

**Ingestion:** Swallowing small quantities (one teaspoon) will cause no harm to healthy adults. If larger amounts are swallowed, give two glasses of water to drink and seek medical attention.

## SECTION IV – ACCIDENTAL RELEASE MEASURES

**General:** Boracide is a water-soluble white powder that may, at high concentrations, cause damage to trees or vegetation by root absorption.

**Land spill:** Vacuum, shovel or sweep up Boracide and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during cleanup and disposal.

**Spillage into water:** Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water

should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its normal environmental background level.

Boracide is a non-hazardous waste when spilled or disposed of, as defined in the Resource Conservation and Recovery Act (RCRA) regulations (40 CFR 261).

## SECTION V – PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White, odorless, powder	<b>Solubility in water:</b>	9.7% @ 20°C; 34.3% @ 50°C
<b>Bulk density:</b>	320 to 480 kg/m <sup>3</sup>	<b>Melting point:</b>	815°C
<b>Vapor pressure:</b>	Negligible @ 20°C	<b>pH @ 20°C:</b>	8.3 (3.0% solution) 7.6 (10.0% solution)

## SECTION VI – FIRE FIGHTING MEASURES AND HANDLING INSTRUCTIONS

### FIRE FIGHTING MEASURES

**General hazard:** None, because Boracide is not flammable, combustible or explosive. The product is itself a flame retardant. Extinguishing media: Any extinguishing media may be used on nearby trees.

**Flammability classification (29 CFR 1910.1200):** Nonflammable solid.

**General:** Boracide is a stable product.

**Hazardous decomposition:** None.

### HANDLING INSTRUCTIONS

**General:** No special handling precautions are required, but dry indoor storage is recommended. Good housekeeping procedures should be followed to minimize dust generation and accumulation.

**Storage Conditions:** Ambient air temperatures and a low moisture environment.

**Incompatible materials and conditions to avoid:** Reaction with strong reducing agents, such as metal hydrides or alkali metals, will generate hydrogen gas, which could create an explosive hazard.

## SECTION VII – TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

**Ingestion:** Low acute oral toxicity; LD<sub>50</sub> in rats is 2,550 mg/kg of body weight.

**Skin/dermal:** Low acute dermal toxicity; LD<sub>50</sub> in rabbits is greater than 2,000 mg/kg of body weight. NiBor -D is poorly absorbed through intact skin.

**Inhalation:** Low acute inhalation toxicity; LD<sub>50</sub> in rats is greater than 2.0 mg/L (or g/m<sup>3</sup>).

**Skin irritation:** Non-irritant.

**Eye irritation:** Draize test in rabbits produced mild eye irritation effects. Years of occupational exposure to Boracide indicates no adverse effects on human eye. Therefore Boracide is not considered to be a human eye irritant in normal industrial use.

**Sensitization:** Boracide is not a skin sensitizer.

## SECTION VIII – ECOLOGICAL INFORMATION

### ECOTOXICITY DATA

**General:** Boron (B) is the element in disodium octaborate tetrahydrate (Boracide) which is used by convention to report borate product ecological effects. To convert disodium octaborate tetrahydrate into the equivalent boron (B) content, multiply by 0.2096.

**Phytotoxicity:** Boron is an essential micronutrient for healthy growth of plants; however, it can be harmful to boron sensitive plants (e.g. grass and ornamentals) in high quantities.

**Algal toxicity:** Green algae, *Scenedesmus subspicatus*

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

**Invertebrate toxicity:** Daphnids, *Daphnia magna strausilt's*

24-hr EC<sub>50</sub> = 242 mg B/L

Test substance: sodium tetraborate

**Fish toxicity:**

Seawater:

Dab, *Limanada limanda*

96-hr LD<sub>50</sub> = 74 mg B/L

Freshwater:

Rainbow trout, *S. gairdneri* (embryo-larval stage)

24-day LD<sub>50</sub> = 88 mg B/L

32-day LD<sub>50</sub> = 54 mg B/L

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

7-day LD<sub>50</sub> = 65 mg B/L

3-day LD<sub>50</sub> = 71 mg B/L

## SECTION IX – DISPOSAL CONSIDERATIONS

**Disposal guidance:** Consult state and local authorities for disposal guidelines.

**RCRA (40 CFR 261):** Boracide is not listed under any sections of the Federal Resource Conservation and Recovery Act (RCRA).

## SECTION X – REGULATORY INFORMATION

**OSHA/Cal OSHA:** This MSDS document meets the requirements of both OSHA (29 CFR 1910.1200) and Cal OSHA (Title 8 CCR 5194 (g)) hazard communication standards. Refer to Section 8 for regulatory exposure limits. **FIFRA:** Boracide is registered with the EPA (EPA Reg. No. 64405-8), in accordance with Section 3 of FIFRA, as a pesticide product.

**U.S. EPA TSCA Inventory 12008-41-2**

**RCRA:** Disodium octaborate tetrahydrate is not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act (RCRA) or regulations (40 CFR 261 *et seq.*).

**California Proposition 65:** Disodium octaborate tetrahydrate (Boracide) is not listed on the Proposition 65 list of carcinogens or reproductive toxicants. **Superfund:** CERCLA/SARA. Disodium octaborate tetrahydrate is not listed. **Safe Drinking Water Act (SDWA):** Disodium octaborate tetrahydrate is not regulated under the SDWA, 42 USC 300g-1, 40 CFR 141 *et seq.* Consult state and local regulations for possible water quality advisories regarding boron compounds.

**Clean Water Act (CWA) (Federal Water Pollution Control Act):** 33 USC 1251 *et seq.*

- ✍ Disodium octaborate tetrahydrate (Boracide) is not itself a discharge covered by any water quality criteria of Section 304 of the CWA, 33 USC 1314.
- ✍ It is not on the Section 307 List of Priority Pollutants, 33 USC 1317, 40 CFR 129.
- ✍ It is not on the Section 311 List of Hazardous Substances, 33 USC 1321, 40 CFR 116.

**Transportation Information:** DOT hazardous classification - Disodium Octaborate Tetrahydrate (Boracide) is not regulated by the U.S. Department of Transportation.



# BORACIDE™

BORATE POWDER



- Less expensive than boric acid and is actually non-corrosive.
- Less prone to caking than boric acid.
- Used to control fly larvae in refuse containers.
- Perfect for crack and crevice treatment against roaches and other indoor pests.
- Effective both in new construction and existing construction for prevention and control of ants, drywood termites and cockroaches.

Effective against earwigs,  
ants, carpenter ants,  
silverfish  
and drywood termites.



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