

# Material Safety Data Sheet

## Borid Insecticide

SDS # : 6604-A  
Revision Date: 2012-06-08  
Version 2.02



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	<b>Borid Insecticide</b>
<b>Active Ingredient(s)</b>	Orthoboric Acid (Boric Acid), Tricalcium phosphate
<b>Recommended use</b>	Insecticide
<b>Manufacturer</b> FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com	<b>Emergency telephone number</b>  Medical Emergencies: (800) 331-3148 (U.S.A. & Canada) +1 (651) 632-6793 (All Other Countries - Collect) For leak, fire, spill or accident emergencies, call: +1 800 / 424 9300 (CHEMTREC - U.S.A.) +1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

### 2. Hazards identification

<b>Appearance</b>	powder white
<b>Physical state</b>	dry powder
<b>Odor</b>	odorless
<b>Physical or Chemical Hazards</b>	.
<b>Flammable properties</b>	Noncombustible
<b>Potential health effects</b> <b>Principle Routes of Exposure</b> <b>Acute effects</b> <b>Eyes</b> <b>Skin</b> <b>Inhalation</b> <b>Ingestion</b> <b>Chronic effects</b>	Eye contact, Skin contact, Ingestion, Inhalation.  May cause slight irritation. Substance may cause slight skin irritation. May cause additional affects as listed under "Ingestion". Ingestion may cause gastrointestinal discomfort including nausea, vomiting and diarrhea if large amounts are ingested. May cause central nervous system depression. Contains a known or suspected reproductive toxin.

### 3. Composition/information on ingredients

#### Hazardous ingredients

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Chemical Name	CAS-No	Weight %
Boric acid	10043-35-3	99
Tricalcium Phosphate	7758-87-4	<=1

### 4. First aid measures

Eye contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move 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.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not induce vomiting or give anything by mouth to an unconscious person.

### 5. Fire-fighting measures

<b>Flammable properties</b>	Noncombustible
<b>Sensitivity to Mechanical Impact</b>	not applicable
<b>Sensitivity to Static Discharge</b>	not applicable
<b>Suitable extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. Use water spray or fog; do not use straight streams.
<b>Protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus and protective suit. Isolate fire area. Evaluate downwind.
<b>NFPA</b>	
Health Hazard	1
Flammability	1
Stability	0
Special Hazards	-

### 6. Accidental release measures

<b>Personal precautions</b>	Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
<b>Environmental precautions</b>	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
<b>Methods for cleaning up</b>	Sweep up and shovel into suitable containers for disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.
<b>Other</b>	For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

## 7. Handling and storage

**Handling** Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Reference to other sections.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Store in original container only.

## 8. Exposure controls/personal protection

### Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Boric acid 10043-35-3	STEL: 6 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>			
Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Boric acid 10043-35-3	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>		TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	

### Occupational exposure controls

**Engineering measures** Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

### Personal Protective Equipment

**General Information** If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**Respiratory protection** For dust, splash, mist or spray exposures wear a filtering mask.

**Eye/face protection** For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield.

**Skin and body protection** Wear long-sleeved shirt, long pants, socks, shoes, and gloves.

**Hand protection** Protective gloves

**Hygiene measures** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

## 9. Physical and chemical properties

Appearance	powder white
Color	white
Physical state	dry powder
Odor	odorless
pH	No information available.
Melting Point/Range	171 °C
Freezing point	No information available
Boiling Point/Range	not applicable
Flash Point	not applicable
Evaporation rate	not applicable
Autoignition Temperature	not applicable
Flammable properties	Noncombustible
Vapor pressure	No information available
Vapor density	No information available

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<b>Water solubility</b>	partly soluble
<b>Percent volatile</b>	No information available
<b>Partition coefficient:</b>	not applicable
<b>Viscosity</b>	No information available
<b>Oxidizing properties</b>	not applicable

## 10. Stability and reactivity

<b>Stability</b>	Stable.
<b>Conditions to avoid</b>	Heat, flames and sparks
<b>Materials to avoid</b>	Strong reducing agents, Bases Metals
<b>Hazardous decomposition products</b>	None known .
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous reactions</b>	Reacts with strong reducing agents forming flammable hydrogen gas. Reacts as a weak acid which may cause corrosion of base metals.

## 11. Toxicological information

### Acute Toxicity

Large amounts of boric acid absorbed into the blood stream from ingestion or skin absorption through damaged skin may cause effects to the central nervous system including dizziness, depression, vomiting, nausea or diarrhea.

**Eye contact** May cause slight irritation.

**Skin contact** May cause slight irritation.

**Ingestion** Ingestion may cause gastrointestinal discomfort including nausea, vomiting and diarrhea if large amounts are ingested.

**Inhalation** May cause irritation of respiratory tract.

> 2000 mg/kg (rat) Boric acid

**LD50 Oral** 3160 mg/kg (rat) Boric acid

**LC50 Inhalation:** > 2.03 mg/L (4-hr) (rat) Boric acid

**Sensitization** Not expected to be sensitizing based on the components.

### Chronic Toxicity - Other Ingredient(s)

**Chronic Toxicity** Contains a known or suspected reproductive toxin.

**Carcinogenicity** Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

**Reproductive toxicity** Animal studies have shown that ingestion of large amounts of Borates over prolonged periods of time cause a decrease in sperm production and testicle size in males.

**Developmental Toxicity** Animal studies have shown that ingestion of large amounts of Borates produced developmental effects in fetuses of pregnant animals.

**Target Organ Effects** Central nervous system (CNS), Gastrointestinal tract (GI), Reproductive System.

## 12. Ecological information

**Ecotoxicity**

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Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Boric acid				EC50 115 - 153 mg/L 48 h

### Environmental Fate

Chemical Name	log Pow
Boric acid	-0.757

## 13. Disposal considerations

Waste disposal methods	Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.
Contaminated packaging	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

## 14. Transport information

<u>DOT</u>	not regulated
<u>TDG</u>	not regulated
<u>ICAO/IATA</u>	not regulated
<u>IMDG/IMO</u>	not regulated

## 15. Regulatory information

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute Health Hazard	no
Chronic Health Hazard	yes
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### International Regulations

<u>Mexico - Grade</u>	Slight risk, Grade 1
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#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class	D2A Very toxic materials
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## 16. Other information

Revision Date: 2012-06-08  
Reason for revision: (M)SDS sections updated.

### Disclaimer

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### Prepared By

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**End of Material Safety Data Sheet**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMAN & DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed or inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**DIRECTIONS FOR USE**

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

**DOMESTIC APPLICATION**

**COCKROACHES, PALMETTOBUGS, WATERBUGS, ANTS (excluding Carpenter Ants) AND SILVERFISH:** No powder should be visible in living areas after application. Any powder visible after application must be brushed into cracks and crevices or removed. Apply only in areas inaccessible to children and pets. Avoid contamination of feed and foodstuffs. Do not use in serving areas when food is exposed. Do not use in edible product areas. Apply approximately 1 pound for every 1,000 square feet of living space.

Apply this product liberally in areas where cockroaches hide or nest:

1. Under and behind appliances.
2. In plumbing voids accessible through holes, around plumbing and drains.
3. In void areas under kitchen and bathroom cabinets (Note: Many cabinets have a gap at the top of the kickplate which offers easy access. If not, drill a small hole at the top of the kickplate.).
4. In drawer wells of cabinets.
5. In cracks around windows, doors, baseplates, fixtures and cabinets.
6. In utility rooms, under and behind hot water heaters, washers and dryers. Be sure to dust plumbing voids.
7. In attics, around the perimeter and vent pipes, above kitchens and baths.
8. Around the perimeter of dropped ceilings.
9. Into pits of elevator shafts, dumbwaiters and trash chutes.
10. Under and behind pallets and boxes in storerooms.

**STORAGE & DISPOSAL**

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

**STORAGE:** Store in original container away from food and feedstuffs. Keep products in a locked storage area.

**DISPOSAL:** Do not reuse this container. Wrap and place in trash collector.

EPA Reg. No. 9444-129

EPA Est. No. 9444-LA-1



**BORiD®**  
with BORIC ACID

**KILLS:** Cockroaches, Palmettobugs,  
Waterbugs, Ants (excluding Carpenter Ants),  
Silverfish and Darkling Beetles.

**Also use for preventive treatment of Cockroaches  
and Drywood Termites.**

**FOR USE IN Homes, Restaurants, Grocery Stores,  
Schools, Warehouses, Mobile Homes, Hotels,  
Offices, Apartments, Attics, Nursing Homes,  
Ships, Yachts, Buses, Kennels, Zoos,  
New Building Construction, Sewers and Hospitals.**

- LONG-LASTING POWDER
- ODORLESS

**ACTIVE INGREDIENT:**

Orthoboric Acid.....99.0%

**INERT INGREDIENTS.....1.0%**

**100.0%**

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONS**

**STATEMENT OF PRACTICAL TREATMENT**

**IF SWALLOWED:** Call physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting. **IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention. **IF IN EYES:** Flush eyes with plenty of water. Call a physician if irritation persists.

**NET WEIGHT 1 lb/454 g**

**DIRECTIONS FOR USE  
WITHIN FOOD AREAS AND NON-FOOD AREAS OF FOOD  
HANDLING ESTABLISHMENTS**

**FOOD HANDLING ESTABLISHMENTS:** Places other than private residences in which exposed food is held, processed, prepared or served.

Care should be taken to avoid depositing the product onto surfaces which are exposed or introducing the material into the air. Avoid contamination of food or food processing surfaces. **APPLICATIONS OF THIS PRODUCT IN THE FOOD AREA OF FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A CRACK AND CREVICE TREATMENT ARE NOT PERMITTED.**

Apply in small amounts directly into cracks and crevices using a bellows duster or other suitable equipment capable of applying insecticide directly. 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.

**SERVING AREAS:** Facilities where prepared foods are served, such as dining room, but excluding areas where food may be prepared or held. Apply as a spot treatment to selective surfaces such as baseboards, under elements of constructions into cracks and crevices. Avoid treating surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.)

**NON-FOOD AREAS:** Includes garbage rooms, lavatories, floor drains (to sewer entries and vestibules), offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (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.

**SEWER TREATMENT:** Apply this product at a rate not to exceed 8 pounds per 3,000 square feet using portable blowers or air pressure tanks.

**PRETREATMENT OF NEW CONSTRUCTION (Preventive treatment for cockroaches and drywood termites):** Apply powder to baseplates and plumbing voids at the rate of 4 pounds per 1,000 square feet. In attics, apply powder around perimeter of attics and around vent stacks at the rate of 4 pounds per 1,000 square feet.

**POULTRY HOUSES-TO CONTROL DARKLING BEETLES:** Remove birds before applying product. Apply at the rate of 1 to 2 pounds per 100 square feet over old litter or soil surface of the poultry house. Also apply to the posts, walls, framing and insulation of the poultry house. Do not apply directly to manure. Evenly spread fresh litter a minimum of four inches over all treated floor surfaces before introducing birds. Reapply after each grow-out period or after each sanitizing and cleaning of the poultry containment area in order to have good beetle control.

Product is filled by weight and may settle in shipping.

Authorized for use under USDA Inspection & Grading Programs.

Manufactured by  
**WATERBURY  
COMPANIES, INC.**

P.O. Box 1812  
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Made in U.S.A.



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