1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>Borid Insecticide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Ingredient(s)</td>
<td>Orthoboric Acid (Boric Acid), Tricalcium phosphate</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Insecticide</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>FMC Corporation</td>
</tr>
<tr>
<td>Emergency telephone number</td>
<td>Medical Emergencies:</td>
</tr>
<tr>
<td></td>
<td>(800) 331-3148 (U.S.A. &amp; Canada)</td>
</tr>
<tr>
<td></td>
<td>+1 (651) 632-6793 (All Other Countries - Collect)</td>
</tr>
<tr>
<td></td>
<td>For leak, fire, spill or accident emergencies, call:</td>
</tr>
<tr>
<td></td>
<td>+1 800 / 424 9300 (CHEMTREC - U.S.A.)</td>
</tr>
<tr>
<td></td>
<td>+1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)</td>
</tr>
<tr>
<td>General Information:</td>
<td></td>
</tr>
<tr>
<td>Phone: (215) 299-6000</td>
<td></td>
</tr>
<tr>
<td>E-Mail: <a href="mailto:msdsinfo@fmc.com">msdsinfo@fmc.com</a></td>
<td></td>
</tr>
</tbody>
</table>

2. Hazards identification

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

3. Composition/information on ingredients

Hazardous ingredients
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

Flammable properties
Noncombustible

Sensitivity to Mechanical Impact
not applicable

Sensitivity to Static Discharge
not applicable

Suitable extinguishing media
Carbon dioxide (CO₂). Foam. Dry chemical. Use water spray or fog; do not use straight streams.

Protective equipment and precautions for firefighters
Wear self-contained breathing apparatus and protective suit. Isolate fire area. Evaluate downwind.

NFPA
Health Hazard 1
Flammability 1
Stability 0
Special Hazards -

6. Accidental release measures

Personal precautions
Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.

Environmental precautions
Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.

Methods for cleaning up
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.

Other
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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric acid</td>
<td>STEL 6 mg/m³</td>
<td>TWA 2 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10043-35-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chemical Name

<table>
<thead>
<tr>
<th>British Columbia</th>
<th>Quebec</th>
<th>Ontario TWA EV</th>
<th>Alberta</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric acid 10043-35-3</td>
<td>STEL 6 mg/m³</td>
<td>TWA 2 mg/m³</td>
<td>STEL 6 mg/m³</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>powder white</td>
</tr>
<tr>
<td>Color</td>
<td>white</td>
</tr>
<tr>
<td>Physical state</td>
<td>dry powder</td>
</tr>
<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>pH</td>
<td>No information available.</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>171 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not applicable</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammable properties</td>
<td>Noncombustible</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available.</td>
</tr>
</tbody>
</table>
10. Stability and reactivity

Stability
Stable.

Conditions to avoid
Heat, flames and sparks

Materials to avoid
Strong reducing agents, Bases Metals

Hazardous decomposition products
None known.

Hazardous polymerization
Hazardous polymerization does not occur.

Hazardous reactions
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.

LD50 Oral
> 2000 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
Borid Insecticide

### 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

**DOT**
not regulated

**TDG**
not regulated

**ICAO/IATA**
not regulated

**IMDG/IMO**
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**

**Mexico - Grade**
Slight risk, Grade 1

**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
16. Other information

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

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End of Material Safety Data Sheet