

Material Safety Data Sheet

Mop Up Insecticide

SDS #: 6646-A
Revision Date: 2012-01-12
Version 1



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

Product name	Mop Up Insecticide
Formula code	6646-A
Active Ingredient(s)	Orthoboric Acid (Boric Acid), Tricalcium phosphate
Recommended use	Insecticide
Manufacturer FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com	Emergency telephone number 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

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

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No	Weight %
Boric acid	10043-35-3	98

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 (CO ₂). 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 protectionExposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Boric acid 10043-35-3	STEL: 6 mg/m ³ TWA: 2 mg/m ³			

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Boric acid 10043-35-3	TWA: 2 mg/m ³ STEL: 6 mg/m ³		TWA: 2 mg/m ³ STEL: 6 mg/m ³	

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.
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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.
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Respiratory protection	For dust, splash, mist or spray exposures wear a filtering mask.
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Eye/face protection	For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield.
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Skin and body protection	Wear long-sleeved shirt, long pants, socks, shoes, and gloves.
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Hand protection	Protective gloves
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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.
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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
Water solubility	partly soluble
Percent volatile	No information available
Partition coefficient:	not applicable
Viscosity	No information available
Oxidizing properties	not applicable

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. > 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

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

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: 2012-01-12
Reason for revision: (M)SDS sections updated.

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End of Material Safety Data Sheet