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 Emergency telephone number

FMC Corporation

Agricultural Products Group Medical Emergencies:

1735 Market Street (800) 331-3148 (U.S.A. & Canada)

Philadelphia, PA 19103 +1 (651) 632-6793 (All Other Countries - Collect)
General Information: For leak, fire, spill or accident emergencies, call:
Phone: (215) 299-6000 +1 800.424.9300 (CHEMTREC - U.S.A.)

E-Mail: msdsinfo@fmc.com +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

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| 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 Sensitivity to Static Discharge not applicable 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.

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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 | STEL 6 mg/m ³ | | | |
| 10043-35-3 | TWA: 2 mg/m ³ | | | |

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

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

Appearancepowder whiteColorwhitePhysical statedry powderOdorodorless

pH No information available.

Melting Point/Range 171 °C

Freezing point No information available

Boiling Point/Rangenot applicableFlash Pointnot applicableEvaporation ratenot applicableAutoignition Temperaturenot applicable

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Flammable properties Noncombustible

Vapor pressureNo information availableVapor densityNo 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 sytem 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.

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12. Ecological information

Ecotoxicity

| Chemical Name | Toxicity to algae | Toxicity to fish | 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 packagingContainers 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

<u>TDG</u> not regulated

<u>ICAO/IATA</u> 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.

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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

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Reason for revision: (M)SDS sections updated.

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End of Material Safety Data Sheet