Material Safety Data Sheet
Drax PF Ant Gel

MSDS #: 6603-A
Revision Date: 2014-01-06
Version 1.01

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

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Drax PF Ant Gel

Formula code 6603
(PCP 26399)

Active Ingredient(s) Orthoboric Acid (Boric Acid)

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:
1 800 / 331-3148 (PROSAR - U.S.A. & Canada)
1 651 / 632-6793 (PROSAR - 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 gel

Physical state gel

Odor Peanut butter

Potential health effects
Principle Routes of Exposure Eye contact, Skin contact, Ingestion.

Acute effects
Eyes May cause slight irritation.
Skin Substance may cause slight skin irritation.
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	5

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 (within the U.S. and Canada) 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

Sensitivity to Mechanical Impact Not applicable
Sensitivity to Static Discharge Not applicable

Suitable extinguishing media

Carbon dioxide (CO_2). Foam. Dry chemical. If necessary. 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. Remove all sources of ignition. 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. 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 CONTROL / PERSONAL PROTECTION

Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Boric acid 10043-35-3	STEL 6 mg/m³ TWA: 2 mg/m³			

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Boric acid 10043-35-3	TWA: 2 mg/m³ STEL: 6 mg/m³		TWA: 2 mg/m³ STEL: 6 mg/m³	

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 — Clean water should be available for washing in case of eye or skin contamination. Wash hands prior to eating, drinking chewing gum or using tobacco. Shower or bathe at the end of working.

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

Information on basic physical and chemical properties

Appearance	gel
Color	green
Physical state	gel
Odor	Peanut butter
pH	No information available.
Melting Point/Range	171.1 °C
Freezing point	No information available
Boiling Point/Range	>100 °C / >212 °F
Flash Point	Not applicable
Evaporation rate	Not applicable
Vapor pressure	No information available
Vapor density	No information available
Water solubility	(% by weight) 12% maximum
Percent volatile	No information available
Partition coefficient	Not applicable
Viscosity	No information available

10. STABILITY AND REACTIVITY

Stability Stable.

Conditions to avoid Heat, flames and sparks

Materials to avoid Acetic anhydride, Elemental potassium

Hazardous decomposition products None known .

Hazardous polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects

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 Not an expected route of exposure.
LD50 Oral > 2000 (rabbit) Boric acid
3160 (Rat) Boric acid

Chronic effects

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.

Chemical Name	ACGIH	IARC	NTP	OSHA	NIOSH - Target Organs
Boric acid		Group 2A			

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	yes
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 No information available

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: 2014-01-06
Reason for revision: (M)SDS sections updated.

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Prepared By

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End of Material Safety Data Sheet