

Material Safety Data Sheet

Drax SF ANT GEL

MSDS #: 6601-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 SF ANT GEL
Formula code	6601 (PCP 20478)
Active Ingredient(s)	Orthoboric Acid (Boric Acid)
Manufacturer	Emergency telephone number
FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com	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 amber Clear
Physical state	gel
Odor	Apple
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
Sucrose	57-50-1	1-5

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 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			
Sucrose 57-50-1	TWA: 10 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m ³ TWA: 5 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	
Sucrose 57-50-1	TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 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	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 PROPERTIESInformation on basic physical and chemical properties

Appearance	gel amber Clear
Color	amber
Physical state	gel
Odor	Apple
pH	No information available.
Melting Point/Range	No information available.
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
Specific Gravity	1.0
Water solubility	Soluble in water
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 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	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
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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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End of Material Safety Data Sheet