

MATERIAL SAFETY DATA SHEET

CRAB & SPURGE PREVENTER

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Issue Date: 11/03

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

CRAB & SPURGE PREVENTER

EPA Reg. No. 62719-426-54705

Common Name: Dimension herbicide.

Chemical Description: Dithiopyr: 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-S,S-dimethyl ester.

TSCA/CAS No.: This product is a mixture – there is no specific CAS No.

Manufactured For

Lawn and Garden Products, Inc.

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 435-2163

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Dithiopyr	97886-45-8	12.7	*N.A.	*N.P.
Inert Ingredients, Total, Including:		87.3		
Aromatic Solvent	64742-94-5		N.A.	N.A.
Naphthalene	91-20-3		N.A.	100
Trimethylbenzene	95-63-6		N.A.	N.A.

* N.A. - Not Available.

* N.P. - Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Yellow liquid with kerosene odor. May cause eye and skin irritation. Toxic to aquatic organisms. Not D.O.T. regulated when shipped over land.

HEALTH: 3 REACTIVITY: 0 FLAMMABILITY: 2 ENVIRONMENT: 0
(0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme)

SECTION 4. FIRST AID

Eyes: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Skin: 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. Wash clothing before reuse.

Ingestion: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

SECTION 4.	FIRST AID (Continued)
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Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration; if by mouth- to-mouth use rescuer protection (pocket mask, etc.). Call a poison control center or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.

NOTE TO PHYSICIAN: If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. The decision of whether to induce vomiting or not should be made by a physician. Contains petroleum distillate – vomiting may cause aspiration pneumonia. Maintain adequate ventilation and oxygenation of the patient. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5.	FIRE AND EXPLOSION HAZARDS
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Flash Point:	145°F (63°C)
Test Method:	Tag Closed Cup
LEL Flammable Limits:	0.8% Solvent, naphtha.
UEL Flammable Limits:	7.0% Solvent, naphtha.
Autoignition Temperature:	Not available.
Flammability Classification:	Combustible.
Known Hazardous Products of Combustion:	Not available.
Properties that Initiate/Contribute to Intensity of Fire:	Not known.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	Not known.
Unusual Fire & Explosion Hazards:	Pesticide particulates can become airborne. Combustion generates toxic fumes of the following: nitrogen oxides and carbon oxides.
Extinguishing Media:	Carbon dioxide, dry chemical, water spray, foam.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and full protective clothing. Contain runoff. Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire.

SECTION 6.	SPILLS AND LEAKS
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Containment: Prevent product spillage from entering drinking water supplies or streams.
 Clean Up: Collect liquid or absorb onto absorbent material and package for disposal.
 Evacuation: Not necessary.

SECTION 7.	STORAGE AND HANDLING
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Storage: Store in original container only in a cool, well ventilated, dry place at temperatures above 40°F. Keep container lid tightly closed when not in use. Do not store near food or feeds. Store away from excessive heat, from sources of ignition and from reactive materials. Store out of direct sunlight. Do not stack pallets more than two (2) high.

Transfer Equipment: Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

SECTION 7.	STORAGE AND HANDLING (Continued)
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Work/Hygienic Practices: Keep out of reach of children. Causes substantial but temporary eye injury. Causes skin irritation. Harmful if swallowed. May cause respiratory tract irritation. May cause allergic skin reaction. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or spray mist. Wear a long-sleeved shirt, long pants, protective eyewear, chemical-resistant gloves such as barrier laminate or Viton 14 \geq mils, and shoes plus socks when mixing and applying this product. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling. Do not allow people or pets to enter treated area until sprays have dried.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
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Eyes: Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.

Skin: Long-sleeved shirt, long pants, chemical-resistant gloves such as barrier laminate or Viton 14 \geq mils and shoes plus socks.

Respiratory: Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).

Ventilation: Recommended but no TLV established.

SECTION 9.	PHYSICAL AND CHEMICAL DATA
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Appearance:	Yellow liquid.
Odor:	Kerosene odor.
pH:	4.1 (aqueous solution).
Vapor Pressure:	3 mm Hg @ 25°C/77°F Solvent, naphtha.
Vapor Density (Air = 1):	4.8 Solvent, naphtha.
Boiling Point:	176° to 210°C / 349° to 410°F Solvent, naphtha.
Freezing Point:	Not available.
Water Solubility:	Emulsifiable.
Density:	7.9 lbs./gal
Evaporation Rate (BAc = 1):	< 1
Viscosity:	11 CPS.
% Volatile:	85% approximate.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10.	STABILITY AND REACTIVITY
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Stability:	Stable.
Conditions To Avoid:	Avoid contact with ignition sources (e.g. sparks, open flame, heated surfaces).
Incompatibility:	Avoid contact with strong oxidizing agents.
Hazardous Decomposition Products:	None known.
Hazardous Polymerization:	Not known to occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	May cause eye irritation. Vapor may cause eye irritation experienced as mild discomfort and redness. Cataracts and other eye effects have been reported in humans repeatedly exposed to naphthalene vapor or dust.
Skin:	Prolonged or repeated contact may cause skin irritation. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The dermal LD ₅₀ has not been determined. Dithiopyr did not cause allergic skin reactions when tested in guinea pigs.
Ingestion:	Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia. Single dose oral LD ₅₀ has not been determined.
Inhalation:	Excessive exposure may cause irritation to upper respiratory tract (nose and throat). May cause central nervous system effects.
Systemic (Other Target Organ) Effects:	Excessive exposure to the solvent may cause respiratory irritation and central nervous system depression.
Cancer Information:	Dithiopyr did not cause cancer in laboratory animals. The solvent contains naphthalene, which has caused cancer in some laboratory animals. An increase in lung tumors was observed in female, but not male, mice exposed to naphthalene by inhalation for two years. In humans, there is limited evidence of cancer in workers involved in naphthalene production. Limited oral studies in rats were negative.
Tetraology (Birth Defects):	The solvent did not cause birth defects or any other fetal effects in laboratory animals.
Reproductive Effects:	No relevant information found.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Toxic.
Toxicity to Plants:	Toxic.
Toxicity in Birds:	Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents in accordance with state and local waste disposal regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal.

SECTION 14.	TRANSPORTATION
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D.O.T.:	Not D.O.T. Regulated.
Other Shipping Description:	Compounds, Tree or Weed Killing (Herbicide), Liquid. NMFC Item 50320, LTL Class 60
For Shipment By Vessel:	Environmentally Hazardous Substance, Liquid, N.O.S. (Dithiopyr), 9, UN 3082, PG III, Marine Pollutant (Dithiopyr)

SECTION 15.	REGULATORY INFORMATION
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CERCLA: Naphthalene (CAS No. 91-20-3 – RQ 100 Lbs. - 8.1%) is listed as a priority pollutant under the Clean Water Act and, as such, fall under the CERCLA spill reporting requirements of 40 CFR 302.

SARA TITLE III, Section 313 Toxic Chemicals: Naphthalene (8.2%); 1,2,4-Trimethylbenzene (1.4%)

PROPOSITION 65 (CA): This product contains naphthalene which is a chemical known to the State of California to cause cancer.

STATE RIGHT-TO-KNOW:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>LIST</u>
Naphthalene	91-20-3	NJ2 NJ3 PA1 PA3
1,2,4-Trimethylbenzene	95-63-6	NJ2 NJ3 PA1 PA3

NJ2 = New Jersey Environmental Hazardous Substance (present at > or = to 1.0%)
 NJ3 = New Jersey Workplace Hazardous Substance (present at > or = to 1.0%)
 PA1 = Pennsylvania Hazardous Substance (present at > or = to 1.0%)
 PA2 = Pennsylvania Environmental Hazardous Substance (present at > or = to 1.0%)

SECTION 16.	OTHER
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All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.