

**Material Safety Data Sheet**  
**DRAGNET® SFR TERMITICIDE/INSECTICIDE**

**MSDS #:** 1784-A  
**Revision Date:** 2014-02-21  
**Version** 1.03



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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.

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## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	DRAGNET® SFR TERMITICIDE/INSECTICIDE
<b>Formula code</b>	1784
<b>Active Ingredient(s)</b>	Permethrin
<b>Alternate Commercial Name</b>	Dragnet®
<b>Synonyms</b>	FMC 33297; 3-phenoxybenzyl (1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate; (3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
<b>Chemical Family</b>	Pyrethroid Pesticide
<b>Recommended use:</b>	Insecticide
<b>Manufacturer</b>	<b><u>Emergency telephone number</u></b>
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

<b><u>Appearance</u></b>	amber liquid
<b><u>Physical state</u></b>	Liquid
<b><u>Odor</u></b>	Faint hydrocarbon
<b><u>Physical or Chemical Hazards</u></b>	
<b>Flammable properties</b>	Combustible liquid
<b><u>Potential health effects</u></b>	
<b>Acute effects</b>	
<b>Eyes</b>	May cause slight irritation.
<b>Skin</b>	Irritating to skin.
<b>Inhalation</b>	Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause drowsiness and dizziness.

**Ingestion**

Harmful if swallowed. Potential for aspiration if swallowed. May cause drowsiness and dizziness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic effects**

May cause adverse kidney effects. May cause adverse liver effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous ingredients

Chemical Name	CAS-No	Weight %
Permethrin	52645-53-1	36.8
1,1'-Biphenyl, bis(1-methylethyl)-	69009-90-1	20-30
Petroleum distillates, hydrotreated light	64742-47-8	10-20

### 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 person 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**

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 induce vomiting or give anything by mouth to an unconscious person.

**Notes to physician**

Contains petroleum distillate. Vomiting may cause aspiration pneumonia. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

### 5. FIRE-FIGHTING MEASURES

**Flammable properties**

Combustible liquid

**Flash Point**

66-68 °C / 151-154 °F

**Method**

Tag Closed Cup

**Sensitivity to Mechanical Impact**

Not applicable

**Sensitivity to Static Discharge**

Not applicable

**Suitable extinguishing media**

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray or fog.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus and full protective gear. Isolate fire area. Evaluate downwind.

**NFPA**

Health Hazard	0
Flammability	1
Stability	0
Special Hazards	-

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
<b>Environmental precautions</b>	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
<b>Methods for cleaning up</b>	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.
<b>Other</b>	For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.
<b>Storage</b>	Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container only.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**Exposure guidelines

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Petroleum distillates, hydrotreated light 64742-47-8	TWA: 200 mg/m <sup>3</sup> Skin			

Occupational exposure controls

<b>Engineering measures</b>	Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. 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

<b>General Information</b>	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.
<b>Respiratory protection</b>	For dust, splash, mist or spray exposures wear full-face elastomeric half mask respirator with appropriate cartridges and/or filters, which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization).
<b>Eye/face protection</b>	For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield
<b>Skin and body protection</b>	Wear long-sleeved shirt, long pants, socks, shoes, and gloves.
<b>Hand protection</b>	Protective gloves
<b>Hygiene measures</b>	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	amber liquid
Color	amber
Physical state	Liquid
Odor	Faint hydrocarbon
pH	4 @ 25 °C (5% solution)
Melting Point/Range	No information available.
Freezing point	No information available
Boiling Point/Range	Not applicable
Flash Point	66-68 - 68 °C / 151-154 154 °F Tag Closed Cup
Evaporation rate	Not applicable
Flammable properties	Combustible liquid
Vapor pressure	No information available
Vapor density	No information available
Density	8.61 lb/gal
Specific Gravity	1.033 @ 20 °C
Water solubility	Emulsifies
Percent volatile	No information available
Partition coefficient	Not applicable
Viscosity	No information available

## 10. STABILITY AND REACTIVITY

Stability	Stable.
Conditions to avoid	Excessive heat, Extreme risk of explosion by shock, friction, fire or other sources of ignition
Hazardous decomposition products	Chlorine, Hydrogen chloride, Carbon oxides, Aldehydes.
Hazardous polymerization	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute effects

Eye contact	May cause slight irritation
Skin contact	Irritating to skin
Ingestion	Large toxic doses of the formulated product, administered to laboratory animals, have produced central nervous system effects with symptoms that include hypersensitivity to touch and sound, tremors, and clonic convulsions. Vomiting after ingestion of this product may cause aspiration of aromatic hydrocarbons into the lungs, which may result in fatal pulmonary edema.
Inhalation	In animals overexposure has produced symptoms such as squinting eyes, irregular and rattling breathing, and ataxia. Inhalation of hydrocarbon vapors may cause headaches, dizziness, disturbances in vision, drowsiness, respiratory irritation, anesthesia, unconsciousness, and other central nervous system effects.
LD50 Dermal	> 2,000 mg/kg (rabbit)
LD50 Oral	998 mg/kg (Rat)
LC50 Inhalation	> 4.3 mg/L 4 hr (Rat)
Sensitization	May cause sensitization of susceptible persons.

### Chronic effects

Chronic Toxicity	May cause adverse kidney effects. May cause adverse liver effects.
Carcinogenicity	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).
Mutagenicity	Permethrin: Did not show mutagenic effects in animal experiments.
Reproductive toxicity	Permethrin: No toxicity to reproduction in animal studies.

**Neurological Effects** Permethrin: Clinical signs of neurotoxicity include altered motor activity and FOB effects, with no signs of histopathology

**Developmental Toxicity** Permethrin: Not teratogenic in animal studies

**Target Organ Effects** Permethrin: Long-term feeding studies in animals resulted in increased liver and kidney weights, induction of the liver microsomal drug metabolizing enzyme system and histopathological changes in the lungs and liver.

**Chronic Toxicity - Other Ingredient(s)** Chronic exposure to aromatic hydrocarbons may cause headaches, dizziness, loss of sensations or feelings (such as numbness), and liver and kidney damage.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

<b>Permethrin (52645-53-1)</b>				
Active Ingredient(s)	Duration	Species	Value	Units
Permethrin	LC50	aquatic arthropods	0.02 - 7.6	µg/L
	LC50	Fish	0.05 - 315	µg/L
	LD50 Oral	Bobwhite quail	>5200	mg/kg
	LD50 Oral	Mallard duck	>5200	mg/kg
	LD50	Bee	0.026 - 0.17	µg/bee

**Environmental Fate**

<b>Permethrin (52645-53-1)</b>		
Active Ingredient(s)	Type of Test	Result
Permethrin	Bioconcentration factor (BCF) <i>Lepomis macrochirus</i> (Bluefill sunfish)	535
	Half-life in soil	~30 days
	log Pow	6.1
	Mobility in soil	Not expected to reach groundwater
	Stability in water	Stable to hydrolysis over a wide range of pH values.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods** Pesticide wastes are toxic. 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** The classification below pertains to the shipment in bulk and non-bulk packaging.

<b>Packaging Type</b>	Bulk,
<b>Proper shipping name</b>	Combustible liquid, n.o.s.
<b>UN/ID No</b>	NA1993
<b>Hazard Class</b>	Combustible
<b>Packing group</b>	III

**Description** NA1993, Combustible liquid, n.o.s. (Aromatic hydrocarbons), III

**TDG**

Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.

**UN/ID No** UN3082  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class** 9  
**Packing group** III  
**Marine pollutant** Permethrin.  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (permethrin), 9, PGIII, Marine Pollutant

**ICAO/IATA**

**UN/ID No** UN3082  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class** 9  
**Packing group** III  
**Marine pollutant** Permethrin  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (permethrin), 9, PGIII, Marine Pollutant

**IMDG/IMO**

**UN/ID No** UN3082  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class** 9  
**Packing group** III  
**EmS No.** F-A, S-F  
**Marine pollutant** Permethrin  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (permethrin), 9, PGIII, Marine Pollutant

**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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Permethrin	52645-53-1	38.85	1.0

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	yes
<b>Chronic Health Hazard</b>	yes
<b>Fire Hazard</b>	yes
<b>Sudden Release of Pressure Hazard</b>	no
<b>Reactive Hazard</b>	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.

Component	U.S. - TSCA (Toxic Substances Control Act) - Section 8(d) - 716.120(a) - Health and Safety Reporting - List of Substances
1,1'-Biphenyl, bis(1-methylethyl)- 69009-90-1 ( 20-30 )	06/28/1984

**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**

D2B Toxic materials



**16. OTHER INFORMATION**

**Revision Date:** 2014-02-21  
**Reason for revision:** 14.

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**Prepared By**

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**End of Material Safety Data Sheet**