Material Safety Data Sheet DRAGNET® SFR TERMITICIDE/INSECTICIDE

MSDS #: 1784-A

Revision Date: 2014-02-21

Version 1.03



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 DRAGNET® SFR TERMITICIDE/INSECTICIDE

Formula code 1784

Active Ingredient(s) Permethrin

Alternate Commercial Name Dragnet®

Synonyms 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

Chemical Family Pyrethroid Pesticide

Recommended use: Insecticide

Manufacturer Emergency telephone number

FMC Corporation Medical Emergencies:

Agricultural Products Group 1 800 / 331-3148 (PROSAR - U.S.A. & Canada)

1735 Market Street 1 651 / 632-6793 (PROSAR - All Other Countries - Collect)

Philadelphia, PA 19103 For leak, fire, spill or accident emergencies, call: General Information: 1 800 / 424 9300 (CHEMTREC - U.S.A.)

Phone: (215) 299-6000 1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

E-Mail: msdsinfo@fmc.com

2. HAZARDS IDENTIFICATION

Appearance amber liquid

Physical state Liquid

Odor Faint hydrocarbon

Physical or Chemical Hazards

Flammable properties Combustible liquid

Potential health effects

Acute effects

Eyes May cause slight irritation.

Skin Irritating to skin.

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause

drowsiness and dizziness.

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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 (CO₂). Dry chemical. Water spray or fog.

Protective equipment and precautions As in any fir

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 -

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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.

7. HANDLING AND STORAGE

Handling Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

Storage 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	TWA: 200 mg/m ³			
64742-47-8	Skin			

Occupational exposure controls

Engineering measures 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.

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 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).

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

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Appearance amber liquid
Color amber
Physical state Liquid

OdorFaint hydrocarbonpH4 @ 25 °C (5% solution)Melting Point/RangeNo information available.Freezing pointNo information available

Boiling Point/Range Not applicable

Flash Point 66-68 - 68 °C / 151-154 154 °F Tag Closed Cup

Evaporation rateNot applicableFlammable propertiesCombustible liquidVapor pressureNo information availableVapor densityNo information available

Density8.61 lb/galSpecific Gravity1.033 @ 20 °CWater solubilityEmulsifies

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.

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.

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

signs of histopathology

Developmental Toxicity Permethrin: Not teratogenic in animal studies

Permethrin: Long-term feeding studies in animals resulted in increased liver and kidney weights, **Target Organ Effects**

induction of the liver microsomal drug metabolizing enzyme system and histopathological changes

in the lungs and liver.

Chronic exposure to aromatic hydrocarbons may cause headaches, dizziness, loss of sensations or **Chronic Toxicity - Other Ingredient(s)**

feelings (such as numbness), and liver and kidney damage.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Permethrin (52645-53-1)				
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

Permethrin (52645-53-1)		
Active Ingredient(s)	Type of Test	Result
Permethrin	Bioconcentration factor (BCF) Lepomis macrochirus (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.

Containers must be disposed of in accordance with local, state and federal regulations. Refer to the Contaminated packaging

product label for container disposal instructions.

14. TRANSPORT INFORMATION

DOT The classification below pertains to the shipment in bulk and non-bulk packaging.

Bulk, **Packaging Type**

Proper shipping name Combustible liquid, n.o.s.

UN/ID No NA1993 **Hazard Class** Combustible

Packing group Ш

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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

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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

Acute Health Hazard	yes
Chronic Health Hazard	yes
Fire Hazard	yes
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.

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)-	06/28/1984
69009-90-1 (20-30)	

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