Material Safety Data Sheet Dragnet® SFR TERMITICIDE/INSECTICIDE

SDS #: 1784-A

Revision Date: 2012-05-15

Version 1.01



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's 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

Agricultural Products Group Medical Emergencies:

1735 Market Street (800) 331-3148 (U.S.A. & Canada)

Philadelphia, PA 19103 +1 (651) 632-6793 (All Other Countries - Collect) General Information: For leak, fire, spill or accident emergencies, call: Phone: (215) 299-6000 +1 800 / 424 9300 (CHEMTREC - U.S.A.)

E-Mail: msdsinfo@fmc.com +1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

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.

MSDS #: 1784-A **Revision Date: 2012-05-15**

Version 1.01

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 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.

for firefighters

Protective equipment and precautions

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

MSDS #: 1784-A Revision Date: 2012-05-15

Version 1.01

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 upSweep 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 controls/personal protection

Exposure guidelines

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Petroleum distillates, hydrotreated light 64742-47-8	TWA: 200 mg/m³ 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 measuresClean 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

MSDS #: 1784-A Revision Date: 2012-05-15

Version 1.01

Appearanceamber liquidColoramberPhysical stateliquid

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 °F Tag Closed Cup

Evaporation ratenot applicableAutoignition Temperaturenot 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

Oxidizing properties not applicable

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

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 Toxicity - Other Ingredient(s)

Chronic Toxicity May cause adverse kidney effects. May cause adverse liver effects.

Carcinogenicity Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

MSDS #: 1784-A **Revision Date:** 2012-05-15

Version 1.01

Mutagenicity Permethrin: Did not show mutagenic effects in animal experiments.

Reproductive toxicity Permethrin: No toxicity to reproduction.

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

Marine pollutant Ecotoxicity

Permethrin

Active Ingredient(s)				
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

Chemical Name	Toxicity to algae	Toxicity to fish	 Toxicity to daphnia and other aquatic invertebrates
Petroleum distillates,		LC50 45 mg/L Pimephales	LC50 4720 mg/L 96 h
hydrotreated light		promelas 96 h LC50 2.2 mg/L	
		Lepomis macrochirus 96 h	
		LC50 2.4 mg/L Oncorhynchus	
		mykiss 96 h	

Environmental Fate

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

MSDS #: 1784-A Revision Date: 2012-05-15

Version 1.01

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 Not regulated for transportation if shipped in Non Bulk packaging. The classification below pertains

to the shipment in Bulk packaging.

Packaging Type Bulk, Non-Bulk

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

Hazard Class

UN/ID No

NA1993

Packing group

III

Marine pollutant

Permethrin

TDG

Proper shipping name Environmentally hazardous substance, liquid, n.o. s.

Hazard Class 9
UN/ID No UN3082
Packing group III

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 Environmentally hazardous substance, liquid, n.o.s. (permethrin), UN3082 + Marine Pollutant

Limited quantity 914 / 450 L

IMDG/IMO

Proper shipping name Environmentally hazardous substance, liquid, n.o. s.

Hazard Class 9
UN/ID No UN3082
Packing group III
Marine pollutant Permethrin

Description Environmentally hazardous substance, liquid, n.o.s. (permethrin), UN3082 + 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

Acute Health Hazard yes
Chronic Health Hazard yes
Fire Hazard yes
Sudden Release of Pressure Hazard no

MSDS #: 1784-A Revision Date: 2012-05-15

Version 1.01

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.

Chemical Name	U.S TSCA (Toxic Substances Control Act) - Section 8(a) - Chemical-Specific Reporting and
	Recordkeeping
Petroleum distillates, hydrotre	ted light Partially exempt chemical substance termed Petroleum Process Stream
Chemical Name	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-methyle	thyl)- 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: 2012-05-15

Reason for revision: No information available.

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End of Material Safety Data Sheet