

Material Safety Data Sheet

ENFORCER

Zep Commercial Sales & Service
A unit of Zep Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-888-805-HELP (4357)
www.enforcer.com

Section 1. Chemical Product and Company Identification

Product name Enforcer Flea Drops Plus

Product code EFDD6

Date of issue 08/20/10 **Supersedes**

This product is a registered pesticide. EPA ID No. 40849-72

Emergency Telephone Numbers

For MSDS Information:

Compliance Services 404-352-1680

For Medical Emergency

(877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency

CHEMTREC: (800) 424-9300 - All Calls Recorded

In the District of Columbia (202) 483-7616

Prepared By

Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

*Hazard Determination System (HDS): Health, Flammability, Reactivity

CAUTION !



CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION.
HARMFUL IF SWALLOWED.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact. Eye contact. Ingestion.

Eyes

Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin

May cause skin irritation. May cause skin sensitization. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation

No known significant effects or critical hazards.

Ingestion

Harmful if swallowed. Can cause gastrointestinal disturbances.

Chronic effects

Contains material which may cause damage to the following organs: kidneys, central nervous system (CNS).

Carcinogenicity No known significant effects or critical hazards.

Product/ingredient name

ACGIH

IARC

EPA

NIOSH

NTP

OSHA

Permethin

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Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

CAS number

% by Weight

TRIPROPYLENE GLYCOL MONOMETHYL ETHER; propanol, {2-(2-methoxymethylethoxy) methyl-ethoxy}-

25498-49-1

45 - 55

PERMETHRIN; (3-phenoxyphenyl) methyl-cis, trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate)

52645-53-1

40 - 50

METHOPRENE; Isopropyl-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate

40596-69-8

1 - 5

Section 4. First Aid Measures

Eye Contact

Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation

Move exposed person to fresh air. If irritation persists, get medical attention.

Ingestion

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)



Flash Point	Closed cup: >104.44°C (>220°F)
Flammable Limits	Not available.
Flammability	Not available.
Fire hazard	In a fire or if heated, a pressure increase will occur and the container may burst.
Fire-Fighting Procedures	Use an extinguishing agent suitable for the surrounding fire. Do not release runoff from fire to drains or watercourses.

Section 6. Accidental Release Measures

Spill Clean up	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.
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Section 7. Handling and Storage

Handling	Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not ingest. Do not reuse container. Wash thoroughly after handling. Apply this product only as specified on the label. Observe label precautions.
Storage	Store and use away from heat, sparks, open flame or any other ignition source. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection**Product name** **Exposure limits**

No exposure limit value known.

Personal Protective Equipment (PPE)

Eyes	Recommended: Safety glasses.	
Body	Recommended: Rubber gloves.	
Respiratory	A respirator is not needed under normal and intended conditions of product use.	

Section 9. Physical and Chemical Properties

Physical State	Liquid.	Color	Amber.
pH	7 to 8	Odor	Mild.
Boiling Point	100°C (212°F)	Vapor Pressure	Not determined.
Specific Gravity	1.05	Vapor Density	Not determined.
Solubility	Partially soluble in the following materials: cold water and hot water.	Evaporation Rate	Not determined.
		VOC (Consumer)	3.0% - 30 g/l

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Slightly reactive or incompatible with the following materials: oxidizing materials.
Hazardous Polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂)

Section 11. Toxicological Information**Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
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Section 12. Ecological Information

Environmental Effects	Toxic to: Fish. Keep out of waterways.
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Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
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m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	-	Acute EC50 0.6 ppb Fresh water	Daphnia - Water flea - 48 hours Daphnia magna - 12 hours
	-	Acute EC50 0.112 ppb Fresh water	Daphnia - Water flea - 48 hours Daphnia magna
	-	Acute IC50 1.09 ug/L Fresh water	Daphnia - Water flea - 48 hours Daphnia magna - Instar - 4 to 5 days
	-	Acute LC50 1.5 ppb Fresh water	Fish - Atlantic salmon - 96 hours Salmo salar
	-	Acute LC50 0.79 ppb Fresh water	Fish - Bluegill - Lepomis macrochirus 96 hours
	-	Acute LC50 0.548 ppb Marine water	Crustaceans - 48 hours Daggerblade grass shrimp - Palaemonetes pugio
	-	Acute LC50 3 ug/L Fresh water	Crustaceans - Crayfish - 48 hours Orconectes sp.
	-	Acute LC50 1.58 ug/L Fresh water	Fish - Lahontan cutthroat trout - 96 hours Oncorhynchus clarki henshawi
	-	Acute LC50 1.25 ug/L Fresh water	Daphnia - Water flea - 48 hours Daphnia magna - Instar - <=24 hours
	-	Acute LC50 1.1 ug/L Fresh water	Fish - Channel catfish - 96 hours Ictalurus punctatus - 14 to 17 mm - 0.02 g
	-	Acute LC50 0.62 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - 96 hours Oncorhynchus mykiss - 0.89 g
	-	Acute LC50 0.6 ug/L Fresh water	Daphnia - Water flea - 48 hours Ceriodaphnia dubia - <24 hours
	-	Acute LC50 0.54 ug/L Fresh water	Daphnia - Water flea - 48 hours Daphnia magna - Instar - 4 to 5 days
-	Acute LC50 0.2 to 0.6 ug/L Fresh water	Daphnia - Water flea - 48 hours Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) - 1 to 2 mm	

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Classification: - [Non-hazardous waste]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not applicable.	Not a DOT controlled material (United States).		-	
TDG Classification	Not available.	Not available.		-	

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG* : Packing group

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:

Product name

Permethin

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations

California Prop 65

No products were found.

Canada**WHMIS (Canada)**Class D-1B: Material causing immediate and serious toxic effects
(Toxic).

Class D-2B: Material causing other toxic effects (Toxic).

Section 16. Other Information

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.