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 Fogger with NYLAR® an Insect Growth Regulator**

Product code **EFF2**

Date of issue **08/26/10** **Supersedes**

This product is a registered pesticide. EPA ID No. 1021-1674-40849

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

WARNING

CAUSES EYE AND SKIN IRRITATION. HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF SWALLOWED.

EXTREMELY FLAMMABLE. CONTENTS UNDER PRESSURE.

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. Inhalation.

Eyes May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin Causes skin irritation. May cause allergic reactions in certain individuals. Harmful if absorbed through the skin. May cause transient skin sensations (tingling).

Inhalation Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation.

Ingestion Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Chronic effects No known chronic effects from exposure.

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
None.						

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
BLEND OF ISOBUTANE & PROPANE	74-98-6; 75-28-5	25 - 35
HYDROTREATED LIGHT PETROLEUM DISTILLATES; paraffinic, naphthenic solvent	64742-47-8	5 - 10
MGK (R) 264; N-Octyl bicycloheptene dicarboximide; Evercide Intermediate 2460	113-48-4	0.167
PYRIFOXYFEN; Nylar (R); [2-{1-Methyl-2-(4-phenoxyphenoxy)ethoxy} pyridine]	95737-68-1	0.1
Esfenvalerate	66230-04-4	0.1
PIPERONYL BUTOXIDE; alpha-(2-(2-butoxyethoxy)ethoxy)-4,5-(methylenedioxy)-2-propyl-toluene	51-03-6	0.1
PYROCIDE (R) 175; Pyrethrins	8003-34-7	0.05

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.

Skin Contact Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation Move exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Avoid giving the exposed person anything to drink if possible. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

Section 5. Fire Fighting Measures

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

Flash Point Not available.

Flammable Limits Not available.

Flammability Extremely flammable. (CSMA test)

Fire hazard CONTENTS UNDER PRESSURE. In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

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 Large spills are unlikely due to packaging.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Observe label precautions. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Empty containers retain product residue and can be hazardous. Apply this product only as specified on the label. Wash thoroughly after handling.

Storage CONTENTS UNDER PRESSURE. Store and use away from heat, sparks, open flame or any other ignition source. Do not puncture or incinerate container. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name	Exposure limits
BLEND OF ISOBUTANE & PROPANE	**ACGIH TLV (United States).** TWA: 800 ppm 8 hour(s). **OSHA PEL (United States).** TWA: 1000 ppm 8 hour(s).
HYDROTREATED LIGHT PETROLEUM DISTILLATES; paraffinic, naphthenic solvent	**Supplier Suggested (United States).** PEL: 100 ppm **ACGIH TLV (United States, 2/2010). Absorbed through skin.** TWA: 200 mg/m³ 8 hour(s).
Esfenvalerate	**Manufacturer (United States). Absorbed through skin.** : 2 mg/m³
PYROCIDE (R) 175; Pyrethrins	**ACGIH TLV (United States).** : 5 mg/m³ **OSHA PEL (United States).** : 5 mg/m³

Personal Protective Equipment (PPE)

Eyes Safety glasses.

Body Recommended: Nitrile gloves. Neoprene gloves.

Respiratory Avoid direct inhalation of spray. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.

Section 9. Physical and Chemical Properties

Physical State Liquid. [Aerosol.]
pH 6.8 to 7.3
Boiling Point Not determined.
Specific Gravity 0.961
Solubility Insoluble in the following materials: cold water and hot water.

Color Milky-white
Odor Solvent.
Vapor Pressure Not determined.
Vapor Density >1 [Air = 1]
Evaporation Rate Not determined.

VOC (Consumer) < 41%

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Keep away from heat, sparks and flame. Slightly reactive or incompatible with the following materials: oxidizing materials.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products carbon oxides (CO, CO_2), Hydrogen cyanide (HCN).

Section 11. Toxicological Information

Acute Toxicity

Hydrotreated Light Petroleum Distillates	LD50 Dermal	Rabbit	3000 mg/kg	-

Section 12. Ecological Information

Environmental Effects Harmful to aquatic organisms. Keep out of waterways.

Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Hydrotreated Light Petroleum Distillates	-	Acute LC50 5900 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 35 to 75 mm	4 days
	-	Acute LC50 2900 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 35 to 75 mm	96 hours
	-	Acute LC50 2600 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 35 to 75 mm	4 days
	-	Acute LC50 2400 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 35 to 75 mm	4 days
	-	Acute LC50 2200 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 35 to 75 mm	4 days

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 Code: D001
Classification: - [Hazardous waste]
Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not available.	Consumer commodity	ORM-D	-	
TDG Classification		Consumer commodity	ORM-D	-	

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

2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether

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.

TSCA 8(a) IUR: Hydrotreated Light Petroleum Distillates

United States inventory (TSCA 8b): Not determined.

State Regulations

California Prop 65 No products were found.

Canada

WHMIS (Canada)

Class A: Compressed gas.
Class B-5: Flammable aerosol.
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.*