

Material Safety Data Sheet



Zep Sales & Service, A Unit of Zep Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-877-I-BUY-ZEP (428-9937)
www.zep.com

Section 1. Chemical Product and Company Identification

Product name ZEP FLUSH 'N KILL DM
Product use Insecticide.
Product code 0182
Date of issue 03/21/08 **Supersedes** 08/26/04

This product is a registered pesticide. EPA ID No. 1270-255

Emergency Telephone Numbers

For MSDS Information:

Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency

INFOTRAC: (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

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Prepared By

Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

CAUTION

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



CAUSES EYE IRRITATION. HARMFUL IF INHALED.

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

Eye contact. Inhalation.

Eyes

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

Skin

May cause skin irritation. May cause allergic skin reactions with repeated exposure.

Inhalation

Avoid inhalation of vapor, spray or mist. Over-exposure by inhalation may cause respiratory irritation.

Ingestion

No data on acute toxicity of the product when ingested.

Chronic effects

Repeated or prolonged inhalation of vapors may lead to chronic respiratory irritation. Prolonged or repeated contact may dry skin and cause irritation.

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

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
HYDROCARBON PROPELLANT; blend of propane & isobutane	75-28-5; 74-98-6	1 - 10
ISOPARAFFINIC SOLVENT; petroleum naphtha, light alkylate	64741-66-8	1 - 5
S-Bioallethrin	28434-00-6	0.10
Ultratec AC; Deltamethrin; (s)-cyano-3-phenoxybenzyl-(1R, 3R)-3(2,2-dibromovinyl)-2,2-dimethyl-cyclopropanecarboxylate	52918-63-5	0.02

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.

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation

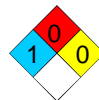
Move exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

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

Section 5. Fire Fighting Measures

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



Flash Point	Not applicable
Flammable Limits	Not applicable
Flammability	Non-flammable. (CSMA Method)
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.
Fire-Fighting Procedures	Use dry chemical, CO ₂ , water spray (fog) or foam. Cool containers with flooding amounts of water from as far a distance as possible.

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). Do not use in and around electrical equipment due to the possibility of shock hazard. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Do not ingest. Wash thoroughly after handling. Apply this product only as specified on the label.
Storage	CONTENTS UNDER PRESSURE. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Keep away from heat, sparks and flame. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

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

HYDROCARBON PROPELLANT; blend of propane & isobutane
ISOPARAFFINIC SOLVENT; petroleum naphtha, light alkylate
Ultratec AC; Deltamethrin; (s)-cyano-3-phenoxybenzyl-(1R, 3R)-3(2,2-dibromovinyl)-2,2-dimethyl-cyclopropanecarboxylate

Exposure limits

ACGIH TLV / OSHA PEL (United States). Notes: Propane
TWA: 1000 ppm 8 hour(s).
Supplier Suggested TLV (United States).
TWA: 1400 mg/m³ 8 hour(s).
ACGIH TLV (United States).
STEL: 100 mg/m³ 15 minute(s).
TWA: 45 mg/m³ 8 hour(s).

Personal Protective Equipment (PPE)

Eyes	Safety glasses.
Body	For prolonged or repeated handling, use gloves. Recommended: Rubber gloves. Nitrile gloves. Neoprene gloves.
Respiratory	Avoid breathing vapors, spray or mists. Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.

**Section 9. Physical and Chemical Properties**

Physical State	Liquid. [Aerosol.]	Color	Clear to white.
pH	Not determined.	Odor	Characteristic. [Slight]
Boiling Point	100°C (212°F)	Vapor Pressure	Not determined.
Specific Gravity	0.989	Vapor Density	Not determined.
Solubility	Soluble in the following materials: cold water and hot water.	Evaporation Rate	Not determined.
		VOC (Consumer)	86.88 (g/l). 0.72 lb/gal 8.80%

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Keep away from heat, sparks and flame. Reactive or incompatible with the following materials: oxidizing materials.
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
S-Bioallethrin	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	574.5 mg/kg	-
	LD50 Oral	Rat	412.9 mg/kg	-
Deltamethrin	LD50 Dermal	Rabbit	>5050 mg/kg	-
	LD50 Oral	Rat	>5050 mg/kg	-

Section 12. Ecological Information

Environmental Effects Toxic to aquatic organisms. Keep out of waterways. Toxic to bees. Do not use product when weather conditions are likely to produce drift from areas treated.

Aquatic Ecotoxicity

Not available.

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	None ORM-D Other regulated materials	Consumer commodity	ORM-D	-	
IMDG Class	Not determined.				

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:
 No products were found.

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.

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.