



Zep Commercial Sales & Service
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Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name Foaming Garbage Disposal Cleaner
Product code ZUGDF19
Date of issue 02/04/14 **Supersedes** 03/04/13

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!

1 0 0

CAUSES EYE IRRITATION.

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

Skin May cause skin irritation. May cause allergic reactions in certain individuals.

Inhalation Over-exposure by inhalation may cause respiratory irritation.

Ingestion Unlikely in this form. May be harmful if swallowed. May be irritating to mouth, throat and stomach.

Chronic effects Contains material which may cause damage to the following organs: liver, heart, skin, eyes, central nervous system (CNS). Prolonged or repeated contact may dry skin and cause irritation.

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

Product/ingredient name

Not available.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
Butane	106-97-8	1 - 5
Dipropylene Glycol Butyl Ether; 1-(2-butoxy-1-methylethoxy)propan-2-ol	29911-28-2	1 - 5
C12-16 Alcohols Ethoxylated 7EO; Alcohols, C12-16, ethoxylated	68551-12-2	1 - 5
d-Limonene; (R)-p-mentha-1,8-diene	5989-27-5	1 - 5
Tetrasodium EDTA; tetrasodium ethylene diamine tetraacetate	64-02-8	1 - 5
propane	74-98-6	1 - 5

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.

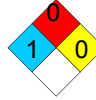
Skin Contact Rinse with plenty of running water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

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

Ingestion Unlikely in this form. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. 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	None.
Flammable Limits	Not determined.
Flammability	Non-flammable. (CSMA)
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 an extinguishing agent suitable for the surrounding fire. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion. Fire-fighters should wear appropriate protective equipment.

Section 6. Accidental Release Measures

Spill Clean up Spills are unlikely due to packaging.

Section 7. Handling and Storage

Handling	Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Do not ingest. Use only with adequate ventilation. Empty containers retain product residue and can be hazardous. Store below 120°F (49°C).
Storage	CONTENTS UNDER PRESSURE. Do not store above the following temperature: 49°C (120°F). Do not puncture or incinerate container. Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store and use away from heat, sparks, open flame or any other ignition source. Keep out of the reach of children.

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

Butane

Exposure limits

OSHA PEL 1989 (United States, 3/1989).

TWA: 800 ppm 8 hours.

TWA: 1900 mg/m³ 8 hours.

NIOSH REL (United States, 1/2013).

TWA: 800 ppm 10 hours.

TWA: 1900 mg/m³ 10 hours.

ACGIH TLV (United States, 3/2012).

TWA: 1000 ppm 8 hours.

propane

OSHA PEL 1989 (United States, 3/1989).

TWA: 1000 ppm 8 hours.

TWA: 1800 mg/m³ 8 hours.

NIOSH REL (United States, 1/2013).

TWA: 1000 ppm 10 hours.

TWA: 1800 mg/m³ 10 hours.

OSHA PEL (United States, 6/2010).

TWA: 1000 ppm 8 hours.

TWA: 1800 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2012).

TWA: 1000 ppm 8 hours.

Personal Protective Equipment (PPE)

Eyes	Recommended: Safety glasses with side-shields
Body	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Nitrile, Neoprene, Rubber 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. Foam. (Aerosol.)	Color	Amber. [Light]
pH	11.5 to 12.5	Odor	Pleasant.
Boiling Point	100°C (212°F)	Vapor Pressure	Not available.
Specific Gravity	1.02	Vapor Density	Not available.
Solubility	Easily soluble in the following materials: cold water and hot water.	Evaporation Rate	1 (Water = 1)
		VOC (Consumer)	7.9 % (w/w) 0.671 lbs/gal (80.4 g/l)

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive or incompatible with the following materials: oxidizing materials and acids.
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
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
d-Limonene; (R)-p-mentha-1,8-diene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	4400 mg/kg	-
	LD50 Dermal	Rabbit	2000 mg/kg	-
C12-16 Alcohols Ethoxylated 7EO; Alcohols, C12-16, ethoxylated	LD50 Oral	Rat	2140 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-
Dipropylene Glycol Butyl Ether; 1-(2-butoxy-1-methylethoxy)propan-2-ol	LD50 Oral	Rat - Female	3700 mg/kg	-
	LD50 Oral	Rat	10 g/kg	-
Tetrasodium EDTA; tetrasodium ethylene diamine tetraacetate	LD50 Oral	Rat	10 g/kg	-

Section 12. Ecological Information

Environmental Effects Not available.

Aquatic Ecotoxicity




Product/ingredient name	Test	Result	Species	Exposure
d-Limonene; (R)-p-mentha-1,8-diene	-	Acute EC50 421 µg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute EC50 688 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours
Dipropylene Glycol Butyl Ether; 1-(2-butoxy-1-methylethoxy)propan-2-ol	-	Acute EC50 >1000 mg/l	Daphnia	96 hours
	-	Acute LC50 841 mg/l	Fish	96 hours
Tetrasodium EDTA; tetrasodium ethylene diamine tetraacetate	-	Acute EC50 610 mg/l	Daphnia	24 hours
	-	Acute LC50 486000 µg/ l Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours

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 by Characteristic.
Origin: RCRA waste.

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	-	Consumer commodity or Limited quantity	-	-	
TDG Classification	UN1950	AEROSOLS, non-flammable or Limited quantity	2.2	-	
IMDG Class	UN1950	AEROSOLS, non-flammable or Limited quantity	2.2	-	

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) 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 A: Compressed gas.

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.