

Safety Data Sheet



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 FOAMING COIL CLEANER
Product use Cleaner.
Product code 0202
Date of issue 21/29/17 **Supersedes** 03/24/11

Emergency Telephone Numbers

For MSDS Information:

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

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
1259 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

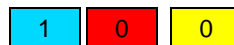
Emergency overview

WARNING

CAUSES EYE IRRITATION.

CONTENTS UNDER PRESSURE.

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



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. Inhalation.

Eyes

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

Skin

Prolonged or repeated contact may dry skin and cause irritation. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation

Avoid direct inhalation of spray. Over-exposure by inhalation may cause respiratory irritation.

Ingestion

Unlikely in this form. Ingestion may cause gastrointestinal irritation and diarrhea.

Chronic effects

Contains material which may cause damage to the following organs: heart, central nervous system (CNS). Inhalation of high concentrations of vapor may affect the central nervous system. Prolonged or repeated contact may dry skin and cause irritation.

Carcinogenicity Classification

No known significant effects or critical hazards.

Additional information: See toxicological information (Section 11)

Section 3. Composition/Information on Ingredients

Name	CAS number	%
Dipropylene Glycol Propyl Ether; 1-(1-methyl-2-propoxyethoxy)propan-2-ol	29911-27-1	1 - 10
Butane	106-97-8	1 - 5
Propylene Glycol; propane-1,2-diol	57-55-6	1 - 5
propane	74-98-6	1 - 5

Section 4. First Aid Measures

Eye Contact

Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention.

Skin Contact

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. If irritation persists, get medical attention.

Inhalation

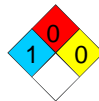
If inhaled, remove to fresh air. If irritation persists, get medical attention.

Ingestion

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	None.
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	Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion. Do not release runoff from fire to drains or watercourses.

Section 6. Accidental Release Measures

Spill Clean up	In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. 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. Dispose of via a licensed waste disposal contractor.
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Section 7. Handling and Storage

Handling	Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Do not ingest. Wash thoroughly after handling. Observe label precautions.
Storage	CONTENTS UNDER PRESSURE. Store and use away from heat, sparks, open flame or any other ignition source. Do not puncture or incinerate container. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children. Store below 120°F (49°C).

Section 8. Exposure Controls/Personal Protection

Ingredient	Exposure limits
Butane	OSHA PEL 1989 (United States, 3/1989). TWA: 800 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours. NIOSH REL (United States, 1/2013). TWA: 800 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. ACGIH TLV (United States, 3/2012). TWA: 1000 ppm 8 hours.
Propylene Glycol; propane-1,2-diol	AIHA WEEL (United States, 10/2011). TWA: 10 mg/m ³ 8 hours.
propane	OSHA PEL 1989 (United States, 3/1989). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m ³ 8 hours. NIOSH REL (United States, 1/2013). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m ³ 10 hours. OSHA PEL (United States, 6/2010). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m ³ 8 hours. ACGIH TLV (United States, 3/2012). TWA: 1000 ppm 8 hours.

Personal Protective Equipment (PPE)

Eyes	Safety glasses.	
Body	For prolonged or repeated handling, use the following type of gloves: Rubber gloves. Nitrile gloves. Neoprene gloves.	
Respiratory	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. Colorless.
pH	11 to 12.2	Odor	Citrus
Boiling Point	100°C (212°F)	Vapor Pressure	Not determined.
Specific Gravity	1.017	Vapor Density	Not determined.
Solubility	Soluble in the following materials: cold water and hot water.	Evaporation Rate	1 (Water = 1)
		VOC (Consumer)	4.9 % (w/w) 0.415 lbs/gal (49.7 g/l)

Section 10. Stability and Reactivity**Stability and Reactivity**

The product is stable.

Incompatibility

Slightly reactive or incompatible with the following materials: acids and oxidizing agents.

Hazardous Polymerization

Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous Decomposition Productscarbon oxides (CO, CO₂) and other organic materials.**Section 11. Toxicological Information**

Product/ingredient name	Result	Species	Dose	Exposure
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
Propylene Glycol; propane-1,2-diol	LD50 Dermal	Rabbit	20800 mg/kg	-
	LD50 Oral	Rat	20 g/kg	-

Section 12. Ecological Information**Environmental Effects** Not available.**Aquatic ecotoxicity**


Product/ingredient name	Result	Species	Exposure
Propylene Glycol; propane-1,2-diol	Acute EC50 >1000 mg/l Fresh water Acute LC50 1000 mg/l Marine water	Daphnia - Daphnia magna Crustaceans - Chaetogammarus marinus - Young	48 hours 48 hours
Dipropylene Glycol Propyl Ether; 1-(1-methyl-2-propoxyethoxy)propan-2-ol	Acute LC50 710000 µg/l Fresh water Acute EC50 >1000 mg/l Acute EC50 >100 mg/l	Fish - Pimephales promelas Algae Daphnia	96 hours 96 hours 48 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	ORM-D	-	
IMDG Class	UN950	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.

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.*

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