



Zep Inc.
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1-877-I-BUY-ZEP (428-9937)
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Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP ZEOPLEX
Product use Heavy Duty Laundry Detergent
Product code F436
Date of issue 06/30/04 **Supersedes** 01/14/99

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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Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - npe; poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy	9016-45-9	40-50	Not established
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	10-20	Not established
D-LIMONENE - orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethyl)-, (R)-	5989-27-5	<10	Not established

Section 3. Hazards Identification

		HMIS	
Acute Effects	Routes of Entry	Health	1
Skin	Hazardous by the following route of exposure: of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering. Skin inflammation is characterized by itching, scaling, or reddening. May cause sensitization by skin contact (allergic reaction).	Fire Hazard	2
Eyes	Hazardous by the following route of exposure: of eye contact (irritant). Inflammation of the eye is characterized by redness, watering and itching.	Reactivity	0
Inhalation	Hazardous by the following route of exposure: of inhalation. May cause respiratory tract irritation.	Personal Protection	B
Ingestion	No data on acute toxicity of the product when ingested. May cause mild gastric irritation, abdominal spasms, nausea and faintness.		

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

Carcinogenic Effects	Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.
Chronic Effects	Prolonged or repeated contact may dry skin and cause irritation. The substance may be toxic to blood, kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops.
Inhalation	If excessive quantities inhaled, remove to fresh air. If symptoms persist, seek immediate 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**Flash Point** Closed cup: 60°C (140°F). **FLAMMABLE LIMITS** Not determined.**Flammability** COMBUSTIBLE.**Fire hazard****Fire-fighting procedures** Use dry chemical, CO₂, water spray (fog) or foam. Cool closed containers exposed to fire with water. Wear special protective clothing and positive pressure, self-contained breathing apparatus.**Section 6. Accidental Release Measures****Spill Clean up** Eliminate all ignition sources. Put on appropriate personal protective equipment (see section 8). Absorb with an inert material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.**Section 7. Handling and Storage****Handling** Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with skin and eyes. Wash contaminated clothing before reusing. Wash thoroughly after handling.**Storage** Store and use away from heat, sparks, open flame or any other ignition source. Keep container tightly closed in a cool, well-ventilated place. Store between the following temperatures: 40°F - 120°F.**Section 8. Exposure Controls, Personal Protection****Personal Protection****Protective Clothing (Pictograms)****Eyes** Recommended: Use safety eyewear designed to protect against splash of liquids.**Body** For prolonged or repeated handling, use gloves.. (Nitrile gloves)**Respiratory** Use with adequate ventilation. Provide local exhaust ventilation to maintain airborne concentrations below established exposure limits.**Section 9. Physical and Chemical Properties****Physical State** Slightly Viscous liquid.**Color** Blue.**pH** 7.5 - 8.5**Odor** Citrus**Boiling Point** Not available.**Vapor Pressure** Not available.**Specific Gravity** 1.03 (Water = 1)**Vapor Density** Not determined.**Solubility** Soluble in water.**Evaporation Rate** 1 compared with Water**VOC (Consumer)** 20.0%**Section 10. Stability and Reactivity****Stability and Reactivity** The product is stable.**Incompatibility** Avoid contact with strong oxidizers, excessive heat, sparks or open flame. Incompatible with some strong acids.**Hazardous Polymerization** Will not occur.**Hazardous Decomposition Products** Carbon dioxide., Carbon monoxide. and other organic materials..**Section 11. Toxicological Information****United States****Acute toxicity****Section 12. Ecological Information****Ecotoxicity** Not available.**Biodegradable/OECD** Not available.**Section 13. Disposal Considerations****Waste** Waste must be disposed of in accordance with federal, **Waste Stream** Code: - (None.)**Information** state and local environmental control regulations. Classification: - (Non-hazardous waste)

Consult your local or regional authorities.

Section 14. Transport Information**Proper shipping name** Not applicable.**DOT Classification** Not a DOT controlled material (United States).**UN number** Not applicable.

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.

TDG Classification Not a TDG-controlled material.

Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:
Diethylene Glycol Monobutyl Ether
Clean Water Act (CWA) 311: No products were found.
Clean Air Act (CAA) 112 regulated toxic substances: Diethylene Glycol Monobutyl Ether
All Components of this product are listed or exempt from listing on TSCA inventory.

State Regulations**WHMIS (Canada)**

Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
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.