

Safety Data Sheet



Zep, Inc.
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Atlanta, GA 30318
1-877-I-BUY-ZEP (428-9937)
www.zep.com

Section 1. Chemical Product and Company Identification

Product name ZEP 50
Product use Aerosol Engine Degreaser
Product code 0150
Date of issue 02/07/12 **Supersedes** 03/14/06

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
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

WARNING!

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
HARMFUL IF INHALED OR ABSORBED THROUGH SKIN.

*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. Eye contact. Inhalation.

Eyes

Irritating to eyes. Inflammation of the eye is characterized by redness, watering and itching.

Skin

Harmful in contact with skin. Irritating to skin. May cause sensitization by skin contact. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation

Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Exposure can cause coughing, chest pains and difficulty in breathing.

Ingestion

Unlikely in this form.

Chronic effects

Contains material which may cause damage to the following organs: kidneys, the nervous system, liver, heart, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, testes.

Carcinogenicity

Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure.

Product/ingredient name

ACGIH

IARC

EPA

NIOSH

NTP

OSHA

naphthalene

A4

2B

-

-

Possible

-

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

CAS number

% by Weight

sodium dodecylbenzenesulfonate

25155-30-0

1 - 10

Citrus Terpenes

94266-47-4

1 - 10

Solvent naphtha (petroleum), heavy arom.

64742-94-5

1 - 10

2-(2-butoxyethoxy)ethanol

112-34-5

1 - 10

2-aminoethanol

141-43-5

1 - 5

propane

74-98-6

1 - 5

Butane

106-97-8

1 - 5

naphthalene

91-20-3

0.1 - 1

Section 4. First Aid Measures

- Eye Contact** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin Contact** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
- Inhalation** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head lower than hips to help prevent aspiration. 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 available.
- Flammable Limits** Not available.
- Flammability** Non-flammable. (CSMA)
- Fire hazard** 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.

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). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not pierce or burn, even after use. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** Do not store above the following temperature: 49°C (120.2°F). 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. Use appropriate containment to avoid environmental contamination.

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

2-aminoethanol

ACGIH TLV (United States, 2/2010).

TWA: 3 ppm 8 hour(s).

STEL: 6 ppm 15 minute(s).

NIOSH REL (United States, 6/2009).

TWA: 3 ppm 10 hour(s).

STEL: 6 ppm 15 minute(s).

OSHA PEL (United States, 6/2010).

TWA: 3 ppm 8 hour(s).

TWA: 6 mg/m³ 8 hour(s).

propane

NIOSH REL (United States, 6/2009).

TWA: 1000 ppm 10 hour(s).

TWA: 1800 mg/m³ 10 hour(s).**OSHA PEL (United States, 6/2010).**

TWA: 1000 ppm 8 hour(s).

TWA: 1800 mg/m³ 8 hour(s).**ACGIH TLV (United States, 2/2010).**

TWA: 1000 ppm 8 hour(s).

Butane

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

TWA: 800 ppm 8 hour(s).

TWA: 1900 mg/m³ 8 hour(s).**NIOSH REL (United States, 6/2009).**

TWA: 800 ppm 10 hour(s).

TWA: 1900 mg/m³ 10 hour(s).**ACGIH TLV (United States, 2/2010).**

TWA: 1000 ppm 8 hour(s).

naphthalene

ACGIH TLV (United States, 2/2010).

TWA: 10 ppm 8 hour(s).

STEL: 15 ppm 15 minute(s).

NIOSH REL (United States, 6/2009).

TWA: 10 ppm 10 hour(s).

STEL: 15 ppm 15 minute(s).

OSHA PEL (United States, 6/2010).

TWA: 10 ppm 8 hour(s).

Personal Protective Equipment (PPE)

Eyes	Safety glasses.	
Body	Neoprene, Nitrile or Rubber gloves.	
Respiratory	Use with adequate ventilation. 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. [Thin liquid Aerosol.]	Color	Milky-white
pH	11 to 11.5	Odor	Citrus
Boiling Point	100°C (212°F)	Vapor Pressure	Not available.
Specific Gravity	0.9904	Vapor Density	Not available.
Solubility	Partially soluble in the following materials: cold water and hot water.	Evaporation Rate	Not available.
		VOC (Consumer)	19.83% 196.4 g/L 1.64 lbs/gal

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
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**

sodium dodecylbenzenesulfonate	LC50 Inhalation Vapor	Rat	310 mg/m3	4 hours
	LD50 Oral	Rat	438 mg/kg	-
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
2-aminoethanol	LD50 Oral	Rat	1720 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m3	4 hours
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-

Section 12. Ecological Information

Environmental Effects	Toxic to aquatic organisms.
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Aquatic Ecotoxicity

sodium dodecylbenzenesulfonate	-	Acute EC50 29000 ug/L Fresh water	Algae - Green algae - Chlorella pyrenoidosa - Exponential growth phase	96 hours
	-	Acute EC50 5.88 ppm Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 1.18 ppm Fresh water	Fish - Bluegill - Lepomis macrochirus	96 hours
2-(2-butoxyethoxy)ethanol	-	Acute LC50 1300000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 33 to 75 mm	96 hours
2-aminoethanol	-	Acute EC50 80000 ug/L Fresh water	Algae - Haptophyte - Isochrysis galbana	96 hours
	-	Acute LC50 >100000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours
	-	Acute LC50 150 mg/L Fresh water	Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss - Yolk-sac fry	96 hours
naphthalene	-	Acute EC50 1600 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <=24 hours	48 hours
	-	Acute LC50 2350 ug/L Marine water	Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio	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
Origin: RCRA waste.

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	-	Consumer commodity	ORM-D	-	
MDG 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:

Product name

2-(2-butoxyethoxy)ethanol
naphthalene

Clean Water Act (CWA) 307: naphthalene

Clean Water Act (CWA) 311: sodium dodecylbenzenesulfonate; naphthalene

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) PAIR: naphthalene

TSCA 8(a) IUR: Not determined

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

State Regulations**California Prop 65**

WARNING: This product contains a chemical or chemicals known to the State of California to cause cancer.: naphthalene
California prop. 65 (no significant risk level): naphthalene

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.