

# 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 45 NC AEROSOL  
**Product use** Aerosol Lubricant & Penetrant  
**Product code** 0149  
**Date of issue** 01/15/15 **Supersedes** 01/27/12

## 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

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

DANGER!



FLAMMABLE LIQUID AND VAPOR.  
CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
HARMFUL IF INHALED OR SWALLOWED.

CONTENTS UNDER PRESSURE. Vapor may cause flash fire. Do not smoke. Eliminate all ignition sources.

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. Risk of serious damage to eyes. Inflammation of the eye is characterized by redness, watering and itching.
- Skin** Causes skin irritation. Skin inflammation is characterized by itching, scaling, or reddening.
- Inhalation** Irritating to respiratory system. Can cause dizziness, light-headedness, headache, nausea and blurred vision. Can cause central nervous system (CNS) depression.
- Ingestion** Unlikely in this form. Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

### Chronic effects

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, liver, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, testes. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation.

### Carcinogenicity Classification

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

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
ethylbenzene	-	2B	-	A3	-	-

Additional information: See toxicological information (Section 11)

## Section 3. Composition/Information on Ingredients

Name	CAS number	%
Hydrotreated Heavy Alkanes; Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10 - 20
Light Aromatic Hydrocarbons; Stoddard solvent	8052-41-3	10 - 20
C9-15 Heavy Aromatic Hydrocarbons; Solvent naphtha (petroleum), light arom.	64742-95-6	10 - 20
ethanol	64-17-5	5 - 15
Middle Alkanes; Distillates (petroleum), straight-run middle	64741-44-2	5 - 15
1,2,4-trimethylbenzene	95-63-6	1 - 10
Butoxydiglycol; 2-(2-butoxyethoxy)ethanol	112-34-5	1 - 10
Carbon dioxide	124-38-9	1 - 10
Amyl Acetate; pentyl acetate	628-63-7	1 - 5
2-methylbutyl acetate	624-41-9	1 - 5
ethylbenzene	100-41-4	0.1 - 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** Flush affected skin with plenty of water. Remove contaminated clothing and shoes. 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 immediately.
- Ingestion** Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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 available.
- Flammable Limits** Not available.
- Flammability** Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
- Fire hazard** Flammable aerosol. Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst or explode. Gas may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. 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** Large spills are unlikely due to packaging.

#### Section 7. Handling and Storage

- Handling** Put on appropriate personal protective equipment (see Section 8). Store and use away from heat, sparks, open flame or any other ignition source. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Observe label precautions. Wash contaminated clothing before reusing. Wash thoroughly after handling.
- Storage** CONTENTS UNDER PRESSURE. Eliminate all ignition sources. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Keep out of the reach of children.

#### Section 8. Exposure Controls/Personal Protection

Ingredient	Exposure limits
Hydrotreated Heavy Alkanes; Distillates (petroleum), hydrotreated heavy naphthenic	<b>ACGIH TLV (United States, 3/2012).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction <b>NIOSH REL (United States, 1/2013).</b> TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist <b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.
Light Aromatic Hydrocarbons; Stoddard solvent	<b>ACGIH TLV (United States, 3/2012).</b> TWA: 100 ppm 8 hours. TWA: 525 mg/m <sup>3</sup> 8 hours. <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 100 ppm 8 hours. TWA: 525 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 1/2013).</b>



**Respiratory** Use with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

### Section 9. Physical and Chemical Properties

<b>Physical State</b>	Liquid. [Aerosol.]	<b>Color</b>	Amber.
<b>pH</b>	Not applicable.	<b>Odor</b>	Sweetish. Solvent-like.
<b>Boiling Point</b>	179.44°C (355°F)	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	0.845	<b>Vapor Density</b>	Not determined.
<b>Solubility</b>	Insoluble in the following materials: cold water and hot water.	<b>Evaporation Rate</b>	<1 (water = 1)
		<b>VOC (Consumer)</b>	50 % (w/w) 3.53 lbs/gal (422.5 g/l)

### Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Keep away from heat, sparks and flame. Reactive or incompatible with the following materials: oxidizing materials.
<b>Hazardous Polymerization</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> )

### Section 11. Toxicological Information

Product/ingredient name	Result	Species	Dose	Exposure
Hydrotreated Heavy Alkanes; Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Dermal	Rabbit	>5 g/kg	-
C9-15 Heavy Aromatic Hydrocarbons; Solvent naphtha (petroleum), light arom.	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
Middle Alkanes; Distillates (petroleum), straight-run middle ethanol	LC50 Inhalation Dusts and mists	Rat	1700 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
1,2,4-trimethylbenzene	LD50 Oral	Rat	7 g/kg	-
	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 g/kg	-
Butoxydiglycol; 2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

### Section 12. Ecological Information

**Environmental Effects** Not available.

#### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 µl/l Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks
1,2,4-trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - Elasmopus pecteniscrus - Adult	48 hours
	Acute LC50 7720 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Butoxydiglycol; 2-(2-butoxyethoxy) ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Amyl Acetate; pentyl acetate ethylbenzene	Acute LC50 65 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2930 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	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** Code: D001  
 Classification: Ignitable hazardous waste.  
 Origin: RCRA waste.

**Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
<b>DOT Classification</b>	-	Consumer commodity or Limited quantity	ORM-D	-	
<b>IMDG Class</b>	UN1950	AEROSOLS, flammable. Marine pollutant (Light Aromatic Hydrocarbons, 1,2,4-trimethylbenzene) or Limited quantity	2.1  --	-  --	

**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**

1,2,4-trimethylbenzene  
Butoxydiglycol; 2-(2-butoxyethoxy)ethanol  
ethylbenzene

**Clean Water Act (CWA) 307:** ethylbenzene

**Clean Water Act (CWA) 311:** ethylbenzene; Amyl Acetate

**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**

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

**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.*