

Material Safety Data Sheet



Zep Inc.
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Atlanta, GA 30318
1-877-I-BUY-ZEP (428-9937)
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Section 1. Chemical Product and Company Identification

Product name ZEP 45 NC AEROSOL
Product use Aerosol Lubricant & Penetrant
Product code 0149
Date of issue 07/17/08 **Supersedes** 02/15/06

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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Prepared By

Compliance Services
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Section 2. Hazards Identification

Emergency overview

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

DANGER !



FLAMMABLE. VAPOR HARMFUL. CAUSES EYE AND SKIN IRRITATION.

CONTENTS UNDER PRESSURE.

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 be harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation

Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression.

Ingestion

Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Chronic effects

Prolonged or repeated contact may dry skin and cause irritation. Repeated or prolonged exposure to the substance can produce target organs damage. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, heart, spleen, central nervous system (CNS), ears, eye, lens or cornea, testes.

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

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

LIGHT AROMATIC NAPHTHA; aromatic hydrocarbon solvent; solvent naphtha (petroleum)	64742-95-6	10 - 20
LIGHT ALIPHATIC NAPHTHA; solvent naphtha (petroleum), medium aliphatics; formerly: light aromatic naphtha	64742-88-7	10 - 20
PARAFFIN OIL; blend of heavy and light naphthenic petroleum distillate	64742-52-5	10 - 20
Proprietary Blended Salts of Oxygenated and Sulfonated Hydrocarbons	Proprietary	10 - 20
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	5 - 15
1,2,4-TRIMETHYLBENZENE	95-63-6	1 - 10
MINERAL SEAL OIL; mineral oil; petrolatum	64741-77-1	1 - 10
BLEND OF AMYL ACETATE; 3-METHYL BUTYL ACETATE; 2-METHYL BUTYL ACETATE	628-63-7; 123-92-2; 624-41-9	1 - 10
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	1 - 5
CARBON DIOXIDE	124-38-9	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 contaminated 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. (CSMA Method)
Fire hazard	Flammable aerosol. Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. 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 closed containers exposed to fire with water. 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**Product name**

LIGHT ALIPHATIC NAPHTHA; solvent naphtha (petroleum), medium aliphatics; formerly: light aromatic naphtha

PARAFFIN OIL; blend of heavy and light naphthenic petroleum distillate

Proprietary Blended Salts of Oxygenated and Sulfonated Hydrocarbons

ETHANOL; ethyl alcohol; grain alcohol

1,2,4-TRIMETHYLBENZENE

MINERAL SEAL OIL; mineral oil; petrolatum

BLEND OF AMYL ACETATE; 3-METHYL BUTYL ACETATE; 2-METHYL BUTYL ACETATE

DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol
CARBON DIOXIDE

Exposure limits

ACGIH TLV (United States).

STEL: 200 ppm 8 hour(s).

OSHA PEL (United States).

TWA: 500 ppm 8 hour(s).

ACGIH TLV (United States).

TWA: 100 ppm 8 hour(s).

OSHA PEL (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

ACGIH TLV (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

ACGIH TLV (United States).

: 5 mg/m³

ACGIH TLV / OSHA PEL (United States).

TWA: 1000 ppm 8 hour(s).

ACGIH TLV (United States).

TWA: 25 ppm 8 hour(s).

OSHA PEL (United States).

TWA: 25 ppm 8 hour(s).

OSHA PEL (United States).

: 5 mg/m³ 8 hour(s). Form: Mist

ACGIH TLV (United States).

: 5 ppm 8 hour(s). Form: Mist

OSHA PEL (United States).

TWA: 100 ppm 8 hour(s).

ACGIH TLV (United States).

TWA: 50 ppm 8 hour(s).

STEL: 100 ppm 15 minute(s).

Manufacturer (United States).

TWA: 35 ppm 8 hour(s).

ACGIH TLV (United States).

TWA: 5000 ppm 8 hour(s).

STEL: 30000 ppm 15 minute(s).

Personal Protective Equipment (PPE)

Eyes	Safety glasses.	
Body	For prolonged or repeated handling, use gloves. Recommended: Neoprene gloves. Nitrile gloves. 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. [Aerosol.]	Color	Amber.
pH	Not applicable	Odor	Sweetish. Solvent-like.
Boiling Point	179.44°C (355°F)	Vapor Pressure	Not determined.
Specific Gravity	0.86	Vapor Density	Not determined.
Solubility	Insoluble in the following materials: cold water and hot water.	Evaporation Rate	<1 (water = 1)
		VOC (Consumer)	429 (g/l). 3.58 lbs/gal (49.9%)

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Keep away from heat, sparks and flame. Reactive or incompatible with the following materials: oxidizing materials.
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
Ethanol	LD50 Oral	Rat	7060 mg/kg	-
	LC50 Inhalation Vapor	Rat	20000 mg/m ³	4 hours
Light Aromatic Naphtha	LD50 Oral	Rat	4700 mg/kg	-
	LC50 Inhalation Vapor	Rat	3670 ppm	8 hours
1,2,4-Trimethylbenzene	LD50 Oral	Rat	5000 mg/kg	-
Diethylene Glycol Monobutyl Ether	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Not available.

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: - [Hazardous waste]
Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not regulated.	Consumer commodity ORM-D			
IMDG 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

1,2,4-Trimethylbenzene
Diethylene Glycol Monobutyl Ether

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: Benzene

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 or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. :
Toluene, Benzene, 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.