

Safety Data Sheet



Superior Solutions

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 ZEP 45 NC AEROSOL
Product use Aerosol Lubricant & Penetrant
Product code 0149
Date of issue 09/15/11 **Supersedes** 07/17/08

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
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Section 2. Hazards Identification

Emergency overview

DANGER !

FLAMMABLE. CAUSES EYE AND SKIN IRRITATION.

VAPOR HARMFUL.

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. 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.

Carcinogenicity

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

Product/ingredient name

Not available.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

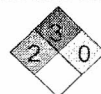
Name of Hazardous Ingredients	CAS number	% by Weight
LIGHT AROMATIC NAPHTHA; aromatic hydrocarbon solvent; solvent naphtha (petroleum)	64742-95-6	10 - 20
ALIPHATIC NAPHTHA; ligroin; stoddard solvent	8052-41-3	10 - 20
PARAFFIN OIL; blend of heavy and light naphthenic petroleum distillate	64742-52-5	10 - 20
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	5 - 15
HYDROTREATED LIGHT PETROLEUM DISTILLATES; paraffinic, naphthenic solvent	64742-47-8	1 - 10
MINERAL SEAL OIL; mineral oil; petrolatum	64741-44-2	1 - 10
PRIMARY AMYL ACETATE, MIXED ISOMERS: 3-METHYL BUTYL ACETATE; 2-METHYL BUTYL ACETATE	123-92-2; 628-63-7 & 624-41-9	1 - 10
1,2,4-TRIMETHYLBENZENE	95-63-6	1 - 10
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	1 - 5
CARBON DIOXIDE	124-38-9	1 - 5
Calcium alkyl naphthalenesulfonate		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
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.
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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**

ALIPHATIC NAPHTHA; ligroin; stoddard solvent

Exposure limits**OSHA PEL (United States).**

TWA: 100 ppm 8 hour(s).

ACGIH TLV (United States).

TWA: 100 ppm 8 hour(s).

PARAFFIN OIL; blend of heavy and light naphthenic petroleum distillate

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**NIOSH REL (United States, 6/2009).**TWA: 5 mg/m³ 10 hour(s). Form: MistSTEL: 10 mg/m³ 15 minute(s). Form: Mist

ETHANOL; ethyl alcohol; grain alcohol

NIOSH REL (United States, 6/2009).

TWA: 1000 ppm 10 hour(s).

TWA: 1900 mg/m³ 10 hour(s).**OSHA PEL (United States, 11/2006).**

TWA: 1000 ppm 8 hour(s).

TWA: 1900 mg/m³ 8 hour(s).**ACGIH TLV (United States, 1/2009).**

STEL: 1000 ppm 15 minute(s).

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

TWA: 1000 ppm 8 hour(s).

TWA: 1900 mg/m³ 8 hour(s).HYDROTREATED LIGHT PETROLEUM DISTILLATES; paraffinic, naphthenic solvent
MINERAL SEAL OIL; mineral oil; petrolatum**Supplier Suggested (United States).**

TWA: 100 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

PRIMARY AMYL ACETATE, MIXED ISOMERS: 3-METHYL BUTYL ACETATE; 2-METHYL BUTYL ACETATE

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).

1,2,4-TRIMETHYLBENZENE

ACGIH TLV (United States).

TWA: 25 ppm 8 hour(s).

OSHA PEL (United States).

TWA: 25 ppm 8 hour(s).

CARBON DIOXIDE

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. 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****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** 0.845**Vapor Density** Not determined.**Solubility** Insoluble in the following materials: cold water and hot water.**Evaporation Rate** <1 (water = 1)**VOC (Consumer)** 49.95% or 422.1 g/l [ISO 11890-1]**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** Under normal conditions of storage and use, hazardous polymerization will not occur.**Hazardous Decomposition Products** carbon oxides (CO, CO₂)**Section 11. Toxicological Information****Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Light Aromatic Naphtha	LC50 Inhalation Vapor	Rat	3670 ppm	8 hours
	LD50 Oral	Rat	4700 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	20000 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
Hydrotreated Light Petroleum Distillates	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), straight-run middle	LC50 Inhalation Vapor	Rat	1700 mg/m ³	4 hours
1,2,4-Trimethylbenzene	LD50 Oral	Rat	5000 mg/kg	-
Diethylene glycol monobutyl ether	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-

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

Product/ingredient name	Test	Result	Species	Exposure
Ethanol	-	Acute EC50 >100 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute LC50 13 ml/L Fresh water	Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss - 0.8 g	96 hours
	-	Acute LC50 13480000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 4 to 5 weeks - 1.1 to cm	96 hours

Diethylene glycol monobutyl ether	-	Acute LC50 25500 ug/L Marine water	Crustaceans - Brine shrimp - Artemia franchiscana - LARVAE	48 hours
	-	Chronic NOEC <6.3 g/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 2000000 ug/L Marine water	Fish - Inland silverside - Menidia beryllina - 40 to 100 mm	96 hours
	-	Acute LC50 1300000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 33 to 75 mm	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: - [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.	Not available.	Not available.	-	

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: Diethylene glycol monobutyl ether;

Xylene

All Components of this product are listed or exempt from listing on TSCA Inventory.

TSCA 8(a) IUR: Distillates (petroleum), hydrotreated heavy naphthenic; Distillates (petroleum), straight-run middle

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, birth defects or other reproductive harm.: Light Aromatic Naphtha; Aliphatic Naphtha ; Xylene; Benzene

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.