

Material Safety Data Sheet



Zep Inc.
1310 Seaboard Industrial Blvd.
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1-877-793-7776

Section 1. Chemical Product and Company Identification

Product name Z-WORKS PTFE LUBRICANT
Product use Liquid Lubricant & Penetrant
Product code R074
Date of issue 07/17/08 **Supersedes**

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-793-7776

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

Prepared By

Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

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

WARNING !



COMBUSTIBLE. CAUSES EYE AND SKIN IRRITATION. HARMFUL IF SWALLOWED OR INHALED.

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. 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. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, heart, spleen, .

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

LIGHT ALIPHATIC NAPHTHA; solvent naphtha (petroleum), medium aliphatics; formerly: light aromatic naphtha	64742-88-7	30 - 40
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
HYDROTREATED LIGHT PETROLEUM DISTILLATES; paraffinic, naphthenic solvent	64742-47-8	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
2-ETHYL HEXYL ALCOHOL; 2-ethyl-1-hexanol; 2-ethylhexanol	104-76-7	1 - 10

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	Closed cup: 43.33°C (110°F)
Flammable Limits	Not available.
Flammability	COMBUSTIBLE.
Fire hazard	Combustible liquid and vapor. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Fire-Fighting Procedures	Use an extinguishing agent suitable for the surrounding fire. Fire-fighters should wear appropriate protective equipment. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

Section 6. Accidental Release Measures

Spill Clean up	Eliminate all ignition sources. Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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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 thoroughly after handling. Do not reuse container.
Storage	Eliminate all ignition sources. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). 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

HYDROTREATED LIGHT PETROLEUM DISTILLATES; paraffinic, naphthenic solvent

MINERAL SEAL OIL; mineral oil; petrolatum

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

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

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

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).

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.	Color	Amber.
pH	Not applicable	Odor	Sweetish. Solvent-like.
Boiling Point	179.44°C (355°F)	Vapor Pressure	Not determined.
Specific Gravity	0.83	Vapor Density	Not determined.
Solubility	Insoluble in the following materials: cold water and hot water.	Evaporation Rate	<1 (water = 1)
		VOC (Consumer)	413 (g/l). 49.2% 3.44 lb/gal

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
Hydrotreated Light Petroleum Distillates	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-Ethylhexanol	LD50 Dermal	Rabbit	1970 mg/kg	-
	LD50 Oral	Rat	2040 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.	Not a DOT controlled material (United States).			
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:
No products were found.

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. :
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.