

# 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 SUPER PENETRANT  
**Product use** Aerosol Penetrant Spray  
**Product code** 0250  
**Date of issue** 10/02/13 **Supersedes** 08/04/09

### 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

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

**DANGER!**



EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. Do not smoke. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. VAPOR HARMFUL. 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. Inhalation.

**Eyes** Causes eye irritation. 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** Over-exposure by inhalation may cause respiratory irritation. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Can cause central nervous system (CNS) depression.

**Ingestion** 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: kidneys, lungs, liver, mucous membranes, heart, upper respiratory tract, skin, eyes, central nervous system (CNS). Prolonged or repeated contact may dry skin and cause irritation.

### 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

<u>Name of Hazardous Ingredients</u>	<u>CAS number</u>	<u>% by Weight</u>
Distillates (petroleum), hydrotreated light	64742-47-8	20 - 30
Naphtha (petroleum), hydrotreated light	64742-49-0	20 - 30
Distillates (petroleum), straight-run middle	64741-44-2	10 - 20
Terpinolene; p-mentha-1,4(8)-diene	586-62-9	10 - 20
propane	74-98-6	1 - 10
Butane	106-97-8	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 affected skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. 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.
- 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. 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: 41.6°C (107°F).
- Flammable Limits** Not available.
- Flammability** EXTREMELY FLAMMABLE LIQUID AND VAPOR. (CSMA) Aerosol that may flash back.
- Fire hazard** CONTENTS UNDER PRESSURE. 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. Fire-fighters should wear appropriate protective equipment.

**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). 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. Empty containers retain product residue and can be hazardous. Watch for accumulation in low confined areas. Wash thoroughly after handling.
- Storage** CONTENTS UNDER PRESSURE. Do not puncture or incinerate container. 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. Eliminate all ignition sources. Keep out of the reach of children.

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

Distillates (petroleum), hydrotreated light

propane

Butane

**Exposure limits****ACGIH TLV (United States, 3/2012). Absorbed through skin.**TWA: 200 mg/m<sup>3</sup>. (as total hydrocarbon vapor) 8 hours.**OSHA PEL 1989 (United States, 3/1989).**

TWA: 1000 ppm 8 hours.

TWA: 1800 mg/m<sup>3</sup> 8 hours.**NIOSH REL (United States, 1/2013).**

TWA: 1000 ppm 10 hours.

TWA: 1800 mg/m<sup>3</sup> 10 hours.**OSHA PEL (United States, 6/2010).**

TWA: 1000 ppm 8 hours.

TWA: 1800 mg/m<sup>3</sup> 8 hours.**ACGIH TLV (United States, 3/2012).**

TWA: 1000 ppm 8 hours.

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

TWA: 800 ppm 8 hours.

TWA: 1900 mg/m<sup>3</sup> 8 hours.**NIOSH REL (United States, 1/2013).**

TWA: 800 ppm 10 hours.

TWA: 1900 mg/m<sup>3</sup> 10 hours.**ACGIH TLV (United States, 3/2012).**

TWA: 1000 ppm 8 hours.

**Personal Protective Equipment (PPE)**

- Eyes** Safety glasses.
- Body** Wear appropriate protective clothing to prevent skin contact.  
Recommended: Neoprene gloves. Nitrile 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

<b>Physical State</b>	Liquid. [Aerosol.]	<b>Color</b>	Clear. Colorless.
<b>pH</b>	Not applicable.	<b>Odor</b>	Solvent-like.
<b>Boiling Point</b>	151.67°C (305°F)	<b>Vapor Pressure</b>	Not available.
<b>Specific Gravity</b>	0.8	<b>Vapor Density</b>	>1 [Air = 1]
<b>Solubility</b>	Insoluble in the following materials: cold water and hot water.	<b>Evaporation Rate</b>	Not available.
		<b>VOC (Consumer)</b>	48.8 % (w/w) 3.26 lbs/gal (390.8 g/l)

### Section 10. Stability and Reactivity

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

#### Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated light	LC50 Inhalation Vapor	Rat	>6.8 mg/l	4 hours
	LD50 Dermal	Rabbit	2000 to 4000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
	Distillates (petroleum), straight-run middle	Rat	1700 mg/m <sup>3</sup>	4 hours
Terpinolene; p-mentha-1,4(8)-diene	LD50 Oral	Rat	4390 mg/kg	-

### Section 12. Ecological Information

**Environmental Effects** Not available.

#### Aquatic Ecotoxicity

Distillates (petroleum), hydrotreated light	-	Acute LC50 2200 µg/l Fresh water	Fish - Bluegill - Lepomis macrochirus	4 days
Terpinolene; p-mentha-1,4(8)-diene	-	Acute EC50 1380 µg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute EC50 763 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	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 (Petroleum Distillates, Terpinolene) 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**

No products were found.

**Clean Water Act (CWA) 311:** No products were found.

**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 less than 0.1% of 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.*

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