



**ZEP Manufacturing Company**  
Acuity Specialty Products Group, Inc.  
P.O. Box 2015  
Atlanta, GA 30301  
1-877-I-BUY-ZEP

# Material Safety Data Sheet

## and Safe Handling and Disposal Information

### Section 1. Chemical Product and Company Identification

**Product name** ZEP-D-GREASE  
**Product Use** Liquid Engine Degreaser  
**Product Code** 0414  
**Date of issue** 01/14/04 **Supersedes** 09/24/97

#### Emergency For MSDS Information:

**Telephone Numbers** Acuity Specialty Products Group, Inc.  
Compliance Services 1-877-I-BUY-ZEP

#### For Medical Emergency:

INFOTRAC  
(877) 541-2016 Toll Free - All Calls Recorded

#### For a Transportation Emergency:

CHEMTREC  
(800) 424-9300 - All Calls Recorded  
In the District of Columbia (202) 483-7616

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### Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
LIGHT AROMATIC NAPHTHA; aromatic hydrocarbon solvent; solvent naphtha (petroleum)	64742-95-6	60-70	Not established
1,2,4-TRIMETHYLBENZENE	95-63-6	20-30	<b>ACGIH TLV (United States).</b> : 25 ppm <b>OSHA PEL (United States).</b> : 25 ppm
KEROSENE; techsene; fuel oil; coal oil	8008-20-6	10-20	<b>ACGIH TLV (United States).</b> : 5 mg/m <sup>3</sup> Form: Mist
SULFONIC ACIDS, PETROLEUM, SODIUM SALTS; proprietary sodium petroleum sulfonate	68608-26-4	<5	Not established
DIPROPYLENE GLYCOL METHYL ETHER; dipropylene glycol monomethyl ether	34590-94-8	<5	<b>OSHA PEL (United States).</b> TWA: 100 ppm 8 hour(s). <b>ACGIH TLV (United States).</b> STEL: 150 ppm 15 minute(s).
ETHYL BENZENE	100-41-4	<0.2	Not established

### Section 3. Hazards Identification

#### Acute Effects

#### Routes of Entry Skin Contact Inhalation.

#### Skin

Hazardous in case of skin contact (irritant). Non-sensitizer for skin. Direct contact may cause irritation and redness. Medical Conditions Aggravated by Overexposure: Skin

#### Eyes

Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

#### Inhalation

Hazardous in case of inhalation (lung irritant). Vapors can produce mucous membrane, nose and throat irritation. Can cause CNS depression. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Medical Conditions Aggravated by Overexposure: Respiratory

#### Ingestion

No data on acute toxicity of the product when ingested. Aspiration hazard if swallowed- can enter lungs and cause damage.

#### HMIS

Health	2
Fire Hazard	2
Reactivity	0
Personal Protection	B

#### Carcinogenic Effects

Classified 2B (Possible for human.) by IARC [Ethylbenzene]. Other Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

#### Chronic Effects

The substance may be toxic to blood, kidneys, liver, heart, ears, eye, lens or cornea. Repeated or prolonged exposure to the substance can produce target organs damage. Can cause CNS depression. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Prolonged skin contact may cause dermatitis with drying and cracking of skin.

See Toxicological Information (section 11)

**Section 4. First Aid Measures**

<b>Eye Contact</b>	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.
<b>Skin Contact</b>	Wash contaminated skin with soap and water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. If irritation persists, get medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases of doubt, or when symptoms persist, seek medical attention.
<b>Ingestion</b>	Aspiration hazard if swallowed- can enter lungs and cause damage. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to help prevent aspiration. Get medical attention immediately.

**Section 5. Fire Fighting Measures**

<b>Flash Point</b>	Closed cup: 45°C (113°F). (Tagliabue.)	<b>Flammable Limits</b>	Not determined.
<b>Flammability</b>	Combustible.		
<b>Fire Hazard</b>	Cool closed containers exposed to fire with water.		
<b>Fire-Fighting Procedures</b>	Dry chemical, carbon dioxide, foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus.		

**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	Eliminate all ignition sources. Put on appropriate personal protective equipment (see Section 8). Absorb with an inert material and put the spilled material in an appropriate waste disposal. To clean the floor and all objects contaminated by this material, use detergent. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
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**Section 7. Handling and Storage**

<b>Handling</b>	Store and use away from heat, sparks, open flame, or any other ignition source. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Wash contaminated clothing before reusing.
<b>Storage</b>	Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Keep out of the reach of children.

**Section 8. Exposure Controls, Personal Protection**

<b>Personal Protection</b>		<b>Protective Clothing (Pictograms)</b>
<b>Eyes</b>	Use safety eyewear designed to protect against splash of liquids. Splash goggles. Safety glasses with side shields.	
<b>Body</b>	Nitrile gloves.	
<b>Respiratory</b>	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Wear appropriate respirator when ventilation is inadequate.	

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid. (Clear.)	<b>Color</b>	Brown. (Dark.)
<b>pH</b>	Not applicable.	<b>Odor</b>	Aromatic. Hydrocarbon.
<b>Boiling Point</b>	>150°C (302°F)	<b>Vapor Pressure</b>	0.4 kPa (3 mmHg) (at 20°C)
<b>Specific Gravity</b>	0.9 (Water = 1)	<b>Vapor Density</b>	4.1 (Air = 1)
<b>Solubility</b>	Emulsifies in water.	<b>Evaporation Rate</b>	0.04 compared to Butyl acetate.
		<b>VOC (Consumer)</b>	82.8%

**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>	Will not occur.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> ) sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> ...)

**Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	<b>1,2,4-Trimethylbenzene:</b>
	ORAL (LD50): Acute: 5000 mg/kg [Rat].
	<b>Kerosene:</b>
	ORAL (LD50): Acute: 8000 mg/kg [Rat].
	DERMAL (LD50): Acute: 4000 mg/kg [Rat].
	<b>Dipropylene Glycol Methyl Ether:</b>
	DERMAL (LD50): Acute: >19200 mg/kg [Rabbit].

**Section 12. Ecological Information****Ecotoxicity** Not available.**Biodegradable/OECD** Not available.**Section 13. Disposal Considerations**

**Waste Information** Waste must be disposed of in accordance with federal, state and local environmental control regulations. **Waste Stream** Code: D001  
Classification: - (Ignitable hazardous waste.)

Consult your local or regional authorities.

**Section 14. Transport Information****Proper shipping name** None.**DOT Classification** Not a DOT controlled material (United States).**UN number** Not regulated.**Section 15. Regulatory Information****U.S. Federal Regulations** SARA 313 toxic chemical notification and release reporting:  
1,2,4-Trimethylbenzene

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

Clean air act (CAA) 112 regulated toxic substances: No products were found.

**State Regulations**

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Benzene, Toluene.

**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.*