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1-877-I-BUY-ZEP (428-9937)  
Superior Solutions www.zep.com

# Material Safety Data Sheet

## and Safe Handling and Disposal Information

### Section 1. Chemical Product and Company Identification

**Product name** ZEP REDI-GREASE  
**Product use** Multi-Purpose Spray Lubricant  
**Product code** 0115  
**Date of issue** 12/29/04 **Supersedes** 02/13/04

**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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### Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
HEPTANE; n-heptane	142-82-5	20 - 30	ACGIH/OSHA (United States). TWA: 400 ppm 8 hour(s).
ALUMINUM COMPLEX GREASE	Proprietary	35 - 45	ACGIH/OSHA (United States). STEL: 500 ppm 15 minute(s).
HYDROTREATED LIGHT PETROLEUM DISTILLATES; paraffinic, naphthenic solvent	64742-47-8	5 - 10	Supplier Suggested (United States). TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minute(s).
TIRCRESYL PHOSPHATE	1330-78-5	<5	Supplier Suggested (United States). TWA: 100 ppm 8 hour(s).
HYDROCARBON PROPELLANT; blend of propane, isobutane & n-butane	75-28-5; 74-98-6; 106-97-8	20 - 30	Not established ACGIH TLV / OSHA PEL (United States). Notes: Propane TWA: 1000 ppm 8 hour(s). OSHA PEL / ACGIH TLV (United States). Notes: n-Butane TWA: 800 ppm 8 hour(s).

### Section 3. Hazards Identification

#### Acute Effects

**Routes of Entry** Dermal contact. Inhalation.

- Skin** Hazardous by the following route of exposure: of skin contact (irritant, permeator). Direct contact may cause irritation and redness. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering. Product may be dermal absorbed. Defatting properties, may aggravate an existing dermatitis.
- Eyes** Hazardous by the following route of exposure: of eye contact (irritant). Inflammation of the eye is characterized by redness, watering and itching.
- Inhalation** Hazardous by the following route of exposure: of inhalation (lung irritant). Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.
- Ingestion** Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Vomiting increases risk of chemical pneumonia.

**NOTE:** MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse health effects are lessened by following all prescribed safety precautions, including use of proper personal protective equipment.

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

**Chronic Effects** Prolonged skin contact may cause dermatitis with drying and cracking of skin. Over-exposure by inhalation or absorption can cause central nervous system depression. Repeated or prolonged exposure to the substance can produce damage to the nervous system, the reproductive system, brain, peripheral nervous system, central nervous system (CNS).

See Toxicological Information (section 11)


#### HMIS

Health	1
Fire Hazard	4
Reactivity	0
Personal Protection	B

**Section 4. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get 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. If vomiting occurs, keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Section 5. Fire Fighting Measures**

<b>Flash Point</b>	Closed cup: <-18°C (<0°F) (Tagliabue.)	<b>Flammable Limits</b> Lower: 1.2% Upper: 6.7%	
<b>Flammability</b>	Extremely flammable. (CSMA) Aerosol that may flash back.		
<b>Fire hazard</b>	FLAMMABLE LIQUID AND VAPOR. Vapor may cause fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Container explosion may occur under fire conditions or when heated.		
<b>Fire-fighting procedures</b>	Dry chemical, carbon dioxide, foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.		


**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	Large spills are unlikely due to packaging.
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**Section 7. Handling and Storage**

<b>Handling</b>	Extremely flammable liquid and vapor. Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Watch for accumulation in low confined areas. Wash thoroughly after handling. Wash contaminated clothing before reusing.
<b>Storage</b>	CONTENTS UNDER PRESSURE. Store and use away from heat, sparks, open flame or any other ignition source. Keep away from heat and direct sunlight. Keep container in a cool, well-ventilated area. Do not store above the following temperature: 49°C (120.2°F). Do not puncture or incinerate. 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>	Safety glasses with side shields.	
<b>Body</b>	Chemical-resistant gloves. (Viton, Neoprene, Nitrile)	
<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. Approved/certified respirator with organic vapor cartridge.	

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid. (Aerosol.)	<b>Color</b> Clear.
<b>pH</b>	Not applicable.	<b>Odor</b> Solvent-like.
<b>Boiling Point</b>	66.1°C (151°F)	<b>Vapor Pressure</b> Not determined.
<b>Specific Gravity</b>	0.80 (Water = 1)	<b>Vapor Density</b> Not determined.
<b>Solubility</b>	Insoluble in the following materials: cold water, hot water.	<b>Evaporation Rate</b> >1 compared with Butyl acetate.
		<b>VOC (Consumer)</b> 49.9% 3.33 (lb/gal) 399.2 (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>	Will not occur.
<b>Hazardous Decomposition Products</b>	Carbon dioxide., Carbon monoxide. and other organic materials..

**Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	<b>Aluminum Complex Grease:</b> ^[25,45,50,70 ORAL (LD50):□Acute: >5000 mg/kg [Rat]. DERMAL (LD50):□Acute: >3160 mg/kg [Rabbit].
	<b>Hydrotreated Light Petroleum Distillates :</b> ^[25,45,50,70 ORAL (LD50):□Acute: >5000 mg/kg [Rat]. DERMAL (LD50):□Acute: >2000 mg/kg [Rabbit].
	<b>Tricresyl Phosphate:</b> ^[25,45,50,70 ORAL (LD50):□Acute: >5000 mg/kg [Rat]. DERMAL (LD50):□Acute: >10000 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: - (Hazardous waste.)  
Origin: - (RCRA waste.)

**Consult your local or regional authorities.****Section 14. Transport Information**

Proper shipping name Consumer commodity

DOT Classification ORM-D

UN number Not regulated.

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.

TDG Classification 3

**Section 15. Regulatory Information**

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting:

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**

**WARNING:** This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Toluene

**WHMIS (Canada)**

Class B-5: Flammable aerosol.

Class D-1B: Material causing immediate and serious toxic effects (Toxic).

Class D-2B: Material causing other toxic effects (Toxic).

**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.