



ZEP Manufacturing Company
 Acuity Specialty Products Group, Inc.
 P.O. Box 2015
 Atlanta, GA 30301
 1-877-I-BUY-ZEP (428-9937)
 www.zep.com

Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP 45
Product Use Aerosol Lubricant
Product Code 0174
Date of issue 04/26/07 **Supersedes** 09/11/03

Emergency Telephone Numbers For MSDS Information:
 Acuity Specialty Products Group, Inc.
Compliance Services 1-877-I-BUY-ZEP (428-9937)

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

Printing date: 04/26/07

Prepared by Compliance Services Group
 Acuity Specialty Products Group
 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
TRICHLOROETHYLENE; acetylene trichloride; 1-chloro-2,2-dichloroethylene	79-01-6	40 - 50	ACGIH TLV (United States). TWA: 50 ppm 8 hour(s). STEL: 100 ppm 15 minute(s). OSHA PEL (United States). TWA: 50 ppm 8 hour(s). STEL: 200 ppm 15 minute(s).
PARAFFIN OIL; blend of heavy and light naphthenic petroleum distillate	64742-52-5	15 - 25	OSHA PEL (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist ACGIH TLV (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist
MINERAL SEAL OIL; mineral oil; petrolatum	64741-77-1	5 - 15	OSHA PEL (United States). : 5 mg/m ³ 8 hour(s). Form: Mist ACGIH TLV (United States). : 5 ppm 8 hour(s). Form: Mist
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	1 - 10	Manufacturer (United States). TWA: 35 ppm 8 hour(s).

Section 3. Hazards Identification

Acute Effects

Routes of Entry Dermal contact. Eye contact. Inhalation. Ingestion.

Skin Causes skin irritation. Skin inflammation is characterized by itching, scaling, or reddening.
Eyes Liquid in eye may cause irritation with possible damage if not rinsed immediately. Inflammation of the eye is characterized by redness, watering, and itching.

Inhalation Hazardous in case of inhalation. Vapors and aerosol can produce mucous membrane, nose and throat irritation. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness, and nausea, and may lead to unconsciousness or death. Can cause central nervous system depression.

Ingestion Harmful if swallowed. Aspiration hazard if swallowed- can enter lungs and cause damage.

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

Classified + (Proven.) by OSHA [Trichloroethylene]. Classified 2A (Probable for human) by IARC, and Group 2 (Reasonably Anticipated To Be Human Carcinogens) by NTP [Trichloroethylene].

Chronic Effects

The substance may be toxic to blood, kidneys, the nervous system, liver, peripheral nervous system, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

See Toxicological Information (section 11)

HMIS

Health	2
Fire Hazard	1
Reactivity	0
Personal Protection	B

Section 4. First Aid Measures

Eye Contact	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 immediately.
Skin Contact	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.
Inhalation	If inhaled, remove 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. Aspiration hazard if swallowed- can enter lungs and cause damage. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not applicable.	Flammable Limits	Not applicable.
Flammability	Not considered to be flammable. (CSMA)		
Fire Hazard	CONTENTS UNDER PRESSURE. May emit toxic fumes under fire conditions. Container explosion may occur under fire conditions or when heated. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back.		
Fire-Fighting Procedures	Use dry chemical or CO ₂ . Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion. Wear special protective clothing and positive pressure, self-contained breathing apparatus.		


**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	Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Watch for accumulation in low confined areas. Do not ingest. Wash thoroughly after handling. Wash contaminated clothing before reusing. Observe label precautions.
Storage	CONTENTS UNDER PRESSURE. Keep container in a cool, well-ventilated area. Store below 120°F. Do not puncture or incinerate. Keep away from heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Safety glasses.	
Body	Wear appropriate protective clothing to prevent skin contact. Recommended: Viton gloves.	
Respiratory	Avoid breathing vapors or spray mists. Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.	

Section 9. Physical and Chemical Properties

Physical State	Aerosol. (Oily liquid.)	Color	Clear. Brown.
pH	Not applicable.	Odor	Sweet. (Strong.)
Boiling Point	189°C (372.2°F)	Vapor Pressure	Not available.
Specific Gravity	1.095 (Water = 1)	Vapor Density	Not available.
Solubility	Insoluble in cold water, hot water.	Evaporation Rate	<1 compared to Carbon tetrachloride
		VOC (Consumer)	50.0% 551 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive with oxidizing agents. Keep away from heat, sparks and flame.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂), Hydrogen Chloride (HCl), Chlorine and Phosgene Gas.

Section 11. Toxicological Information

Toxicity to Animals	Trichloroethylene:
	ORAL (LD50): Acute: 4920 mg/kg [Rat]. 2402 mg/kg [Mouse].
	DERMAL (LD50): Acute: 29800 mg/kg [Rabbit].
	Diethylene Glycol Monobutyl Ether:
	ORAL (LD50): Acute: 5660 mg/kg [Rat]. 2400 mg/kg [Mouse].
	DERMAL (LD50): Acute: 2700 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: D040
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.

Section 15. Regulatory Information**U.S. Federal Regulations** SARA 313 toxic chemical notification and release reporting:

Trichloroethylene

Diethylene Glycol Monobutyl Ether

Clean Water Act (CWA) 311: Trichloroethylene RQ 100 lbs. (45.36 kg)

Clean air act (CAA) 112 regulated toxic substances: Trichloroethylene; Diethylene Glycol Monobutyl Ether

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

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: Trichloroethylene

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.