



Zep Inc.  
1310 Seaboard Industrial Blvd.  
Atlanta, GA 30318  
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** ZEPRESERVE AEROSOL  
**Product use** Aerosol Penetrant Spray  
**Product code** 0095  
**Date of issue** 02/12/04 **Supersedes** 02/04/00

**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

Printing date: 06/23/08

### Prepared By

Compliance Services  
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	<b>ACGIH TLV (United States).</b> TWA: 50 ppm 8 hour(s). STEL: 100 ppm 15 minute(s). <b>OSHA PEL (United States).</b> TWA: 50 ppm 8 hour(s). STEL: 200 ppm 15 minute(s).
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	<10	Not established
2-ETHYL HEXYL ALCOHOL; 2-ethyl-1-hexanol; 2-ethylhexanol	104-76-7	<10	Not established

## Section 3. Hazards Identification

### Acute Effects

**Routes of Entry** Absorbed through skin. Inhalation.

- Skin** Hazardous by the following route of exposure: of skin contact (irritant). Non-sensitizer to skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.
- Eyes** Hazardous by the following route of exposure: of eye contact (irritant). Liquid in eye may cause irritation with possible damage if not rinsed immediately.
- Inhalation** Hazardous by the following route of exposure: of inhalation (lung irritant). Can cause central nervous system (CNS) depression. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Prolonged repeated exposure may cause chemical pneumonitis. Medical conditions aggravated by over-exposure Respiratory, Heart (Cardiac).

**Ingestion** 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

Trichloroethylene - Classified + (Proven) by OSHA, Classified 2A (Probable for human) by IARC, Group 2 (Reasonably Anticipated To Be Human Carcinogen) by NTP

### Chronic Effects

The substance may be toxic to kidneys, liver, central nervous system (CNS), and heart. Repeated or prolonged exposure to the substance can produce target organs damage. Defatting to the skin. Prolonged skin contact may cause dermatitis with drying and cracking of skin.

See Toxicological Information (section 11)

### HMIS

Health	2
Fire Hazard	0
Reactivity	0
Personal Protection	B

## Section 4. First Aid Measures

- Eye Contact** Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.
- Skin Contact** Wash affected area with soap or mild detergent and water. Remove contaminated clothing and shoes. 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** 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>	Not applicable.	<b>Flammable Limits</b>	Not applicable.
<b>Flammability</b>	Non-flammable. (CSMA)		
<b>Fire hazard</b>	Container explosion may occur under fire conditions or when heated. Thermal decomposition of product can produce toxic vapors of Hydrogen chloride (HCl), Chlorine and Phosgene gas.		
<b>Fire-fighting procedures</b>	In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> . 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.

**Section 7. Handling and Storage**

<b>Handling</b>	Watch for accumulation in low confined areas. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Wash contaminated clothing before reusing. Wash thoroughly after handling. Vapor may cause flash fire. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
<b>Storage</b>	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.	
<b>Body</b>	Chemical-resistant gloves. (Viton)	
<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>	Oily liquid. (Aerosol.)	<b>Color</b>	Clear. Brown.
<b>pH</b>	Not applicable.	<b>Odor</b>	Solvent-like.
<b>Boiling Point</b>	87.2°C (189°F)	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	1.07 (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
		<b>VOC (Consumer)</b>	49.9% 4.5 (lb/gal) 536 (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. Incompatible with some strong acids.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	Carbon dioxide., Carbon monoxide., Chlorine and Phosgene gas.

**Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	<b>Trichloroethylene:</b> ^[25,45,50,70 ORAL (LD50): □ Acute: 4920 mg/kg [Rat]. 2402 mg/kg [Mouse]. DERMAL (LD50): □ Acute: 29800 mg/kg [Rabbit].
----------------------------	---

**Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
<b>Biodegradable/OECD</b>	Not available.

**Section 13. Disposal Considerations**

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	<b>Waste Stream</b>	Code: -D040 Classification: - (Hazardous waste.) Origin: - (RCRA waste.)
--------------------------	--	---------------------	--

Consult your local or regional authorities.

**Section 14. Transport Information**

<b>Proper shipping name</b>	Consumer commodity	<b>UN number</b>	Not regulated.
<b>DOT Classification</b>	ORM-D		

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** ORM-D

**Section 15. Regulatory Information****U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

Trichloroethylene

Diethylene Glycol Monobutyl Ether (Glycol Ethers)

Clean Water Act (CWA) 311: Trichloroethylene RQ 100 lbs. (45.4 kg)

Clean Air Act (CAA) 112 regulated toxic substances: Trichloroethylene; Diethylene Glycol Monobutyl Ether (Glycol Ethers)

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.: Trichloroethylene

**WHMIS (Canada)**

Class D-2A: Material causing other toxic effects (Very 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.*