



Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP AEROSOLVE II
Product use Aerosol Solvent Degreaser
Product code 0181
Date of issue 10/08/04 **Supersedes** 06/11/03

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
TRICHLOROETHYLENE; acetylene trichloride; 1-chloro-2,2-dichloroethylene	79-01-6	>90	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).

Section 3. Hazards Identification

Acute Effects

Routes of Entry Dermal contact. Eye contact. Inhalation.

Skin Hazardous by the following route of exposure: of skin contact (irritant, permeator). Direct contact may cause irritation and redness. Harmful if absorbed through the skin. Prolonged or repeated contact may dry skin and cause irritation.

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. Inflammation of the eye is characterized by redness, watering and itching.

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. Over-exposure by inhalation may cause respiratory irritation. Prolonged repeated exposure may cause chemical pneumonitis.

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, 2 (Reasonably anticipated to be human carcinogens.) by NTP [Trichloroethylene].

Chronic Effects The substance may be toxic to kidneys, liver, central nervous system (CNS), ears. Repeated or prolonged exposure to the substance can produce target organs damage. May be harmful by inhalation after often repeated exposure. 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 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.

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 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

Flash Point	Not applicable.	Flammable Limits Lower: 8% Upper: 10.5%
Flammability	Non-flammable. (CSMA)	
Fire hazard	CONTENTS UNDER PRESSURE. Cool closed containers exposed to fire with water.	
Fire-fighting procedures	Use dry chemical or CO ₂ . 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

Handling	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.
Storage	CONTENTS UNDER PRESSURE. 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 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	Chemical-resistant gloves. Recommended: Viton	
Respiratory	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

Physical State	Liquid. (Aerosol.)	Color Clear. Colorless.
pH	Not applicable.	Odor Mild. Solvent-like.
Boiling Point	87.2°C (189°F)	Vapor Pressure 8 kPa (60 mm Hg) (at 20°C)
Specific Gravity	1.46 (Water = 1)	Vapor Density >1 (Air = 1)
Solubility	Insoluble in the following materials: cold water, hot water.	Evaporation Rate >1 compared with Ether (anhydrous).
		VOC (Consumer) 1412.3 (g/l). 11.78 lb/gals 96.9%

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive with oxidizing agents, metals, alkalis.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Carbon dioxide., Carbon monoxide., Hydrogen chloride (HCl)., Chlorine and Phosgene gas.

Section 11. Toxicological Information

Toxicity to Animals	Trichloroethylene: ^[25,45,50,70 ORAL (LD50): □ Acute: 4920 mg/kg [Rat]. 2402 mg/kg [Mouse]. DERMAL (LD50): □ Acute: 29800 mg/kg [Rabbit].
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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, U228 Classification: - (Hazardous waste.) Origin: - (RCRA waste.)
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Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name	Consumer commodity	UN number Not regulated.
DOT Classification	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

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

Clean Air Act (CAA) 112 regulated toxic substances: Trichloroethylene

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 A: Compressed gas.

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.