



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

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name **ZEP TOP SOLV**
 Product Use Solvent Degreaser
 Product Code **1094**
 Date of issue **01/15/04** **Supersedes 05/28/03**

Emergency For MSDS Information:
 Telephone Acuity Specialty Products Group, Inc.
 Numbers Compliance Services 1-877-1-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

Printing date: 01/15/04

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	90-100	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** Absorbed through skin. Inhalation. Ingestion.

Skin Hazardous in case of skin contact (irritant, permeator). Direct contact may cause irritation and redness. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

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). May cause irritation of respiratory tract, coughing, shortness of breath. Exposure to high concentrations can cause dizziness, lightheadness, headache, nausea, and blurred vision. Higher levels may cause unconsciousness. Severe over-exposure can result in death. Medical Conditions Aggravated by Overexposure: Respiratory and Heart (Cardiac).

Ingestion Hazardous in case of ingestion. Aspiration hazard if swallowed- can enter lungs and cause damage. May be harmful if swallowed.

HMIS

Health	2
Fire Hazard	0
Reactivity	0
Personal Protection	B

Carcinogenic Effects 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, peripheral nervous system, central nervous system (CNS). 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)

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 immediately.

Skin Contact Wash contaminated skin with soap and 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 combustible. Vapor may cause flash fire.
 Fire Hazard Cool closed containers exposed to fire with water.
 Fire-Fighting Procedures Use DRY chemicals, CO₂, water spray or foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus.



**Section 6. Accidental Release Measures**

Spill Clean up 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.

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. Wash thoroughly after handling. Wash contaminated clothing before reusing.
 Storage Keep container tightly closed in a cool, well-ventilated place. Keep away from incompatibles. Keep out of the reach of children. Store between 40°F - 120°F (4.4°C - 49°C).

Section 8. Exposure Controls, Personal Protection

Personal Protection Protective Clothing (Pictograms)
 Eyes Splash goggles. 
 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. Color Clear. Colorless.
 pH Not applicable. Odor Chlorinated hydrocarbon. (Strong.)
 Boiling Point 87.2°C (189°F) Vapor Pressure 8 kPa (60 mmHg) (at 20°C)
 Specific Gravity 1.45 (Water = 1) Vapor Density 4.5 (Air = 1)
 Solubility Insoluble in cold water. Evaporation Rate 3.1 compared to Ether (anhydrous).
 VOC (Consumer) 1458 (g/l). (100%)

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:
 ORAL (LD50): Acute: 4920 mg/kg [Rat]. 2402 mg/kg [Mouse].
 DERMAL (LD50): Acute: 29800 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: U228 - Unused Product; D040 - Used product
 Classification: - (Hazardous waste.)

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name RQ, Trichloroethylene Mixture
 DOT Classification 6.1 UN number 1710

Section 15. Regulatory Information

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting:
Trichloroethylene
Clean Water Act (CWA) 311: Trichloroethylene
Clean air act (CAA) 112 regulated toxic substances: Trichloroethylene

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.