



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

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP BRAKE PARTS CLEANER
Product Use Aerosol Brake Parts Cleaner and Degreaser
Product Code 0184
Date of issue 01/05/04 **Supersedes** 02/14/00

Emergency Telephone Numbers For MSDS Information:
Acuity Specialty Products Group, Inc.
Compliance Services 1-877-I-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: 01/05/04

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	45-55	ACGIH TLV (United States, 1989). TWA: 50 ppm 8 hour(s). STEL: 100 ppm 15 minute(s). OSHA PEL (United States, 1989). TWA: 50 ppm 8 hour(s). STEL: 200 ppm 15 minute(s).
TETRACHLOROETHYLENE; perchloroethylene; perc; carbon bichloride	127-18-4	45-55	ACGIH TLV (United States). TWA: 25 ppm 8 hour(s). STEL: 100 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. Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Eyes Hazardous in case of eye contact. Inflammation of the eye is characterized by redness, watering, and itching. Liquid in eye may cause irritation with possible damage if not rinsed immediately.

Inhalation Hazardous in case of inhalation. Over-exposure by inhalation may cause respiratory irritation. Can cause 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 Overexposure: Respiratory, Heart (Cardiac).

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

HMIS

Health	2
Fire Hazard	0
Reactivity	0
Personal Protection	B

Carcinogenic Effects Tetrachloroethylene, Trichloroethylene : Classified 2A (Probable for human.) by IARC, and Group 2 (Reasonably Anticipated To Be Human Carcinogens.) 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)

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 contaminated skin with soap and water. Get medical attention if irritation develops. Wash clothing before reuse.
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. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not applicable.	Flammable Limits	Not applicable.
Flammability	Non-flammable. (CSMA)		
Fire Hazard	Container explosion may occur under fire conditions or when heated.		
Fire-Fighting Procedures	Use dry chemical or CO ₂ . Cool closed containers exposed to fire with water. 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 breathing vapors or spray mists. Avoid contact with eyes, skin and clothing. Watch for accumulation in low confined areas.
Storage	Keep container in a cool, well-ventilated area. Do not store above 49°C (120.2°F). Keep away from heat and direct sunlight. Keep away from incompatibles. Do not puncture or incinerate. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Safety glasses. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.	
Body	Chemical resistant gloves. (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	Solvent-like.
Boiling Point	87.2°C (189°F)	Vapor Pressure	Not determined.
Specific Gravity	1.53 (Water = 1)	Vapor Density	Not determined.
Solubility	Insoluble in cold water, hot water.	Evaporation Rate	>1 compared to Butyl acetate.
		VOC (Consumer)	45.0% 689 g/l

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive with oxidizing agents, metals, acids, 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].
	Perchloroethylene:
	ORAL (LD50): Acute: 2629 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: D039, 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.

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

Trichloroethylene

Tetrachloroethylene

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

Clean air act (CAA) 112 regulated toxic substances: Trichloroethylene; Tetrachloroethylene

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; Tetrachloroethylene

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.