

# Material Safety Data Sheet



Zep Inc.  
1310 Seaboard Industrial Blvd.  
Atlanta, GA 30318  
1-877-793-7776

## Section 1. Chemical Product and Company Identification

**Product name** ELECTRICAL CONTACT CLEANER  
**Product use** Cleaner. Solvent.  
**Product code** R108  
**Date of issue** 05/11/09 **Supersedes**

### Emergency Telephone Numbers

**For MSDS Information:**  
Compliance Services 1-877-793-7776

**For Medical Emergency**  
(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

**Prepared By**  
Compliance Services  
1420 Seaboard Industrial Blvd.  
Atlanta, GA 30318

## Section 2. Hazards Identification

### Emergency overview

\*Hazard Determination System (HDS): Health, Flammability, Reactivity

### WARNING



VAPOR HARMFUL. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. CONTENTS UNDER PRESSURE.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

### Acute Effects

#### Routes of Entry

Dermal contact. Eye contact. Inhalation.

- Eyes** Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.
- Skin** Causes skin irritation. May be harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, or reddening.
- Inhalation** Avoid breathing vapors, spray or mists. Inhalation causes headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression.
- Ingestion** May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

### Chronic effects

Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Contains material which may cause damage to the following organs: kidneys, liver, peripheral nervous system, central nervous system (CNS).

Additional Information: See Toxicological Information (Section 11)

## Section 3. Composition/Information on Ingredients

TRICHLOROETHYLENE; acetylene trichloride; 1-chloro-2,2-dichloroethylene	79-01-6	90 - 100
CARBON DIOXIDE	124-38-9	1 - 5

## Section 4. First Aid Measures

- Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.
- Skin Contact** Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.
- Inhalation** Move exposed person 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. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

## Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)



<b>Flash Point</b>	Not available.
<b>Flammable Limits</b>	Lower: 8% Upper: 10%
<b>Flammability</b>	Non-combustible. Vapor may cause flash fire.
<b>Fire hazard</b>	CONTENTS UNDER PRESSURE. Do not allow vapor to accumulate in low or confined areas. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Fire-Fighting Procedures</b>	Use an extinguishing agent suitable for the surrounding fire.

## Section 6. Accidental Release Measures

<b>Spill Clean up</b>	Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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## Section 7. Handling and Storage

<b>Handling</b>	Put on appropriate personal protective equipment (see section 8). Do not allow vapor to accumulate in low or confined areas. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use with adequate ventilation. Do not ingest. Wash thoroughly after handling.
<b>Storage</b>	CONTENTS UNDER PRESSURE. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Keep out of the reach of children.

## Section 8. Exposure Controls/Personal Protection

### Product name

TRICHLOROETHYLENE; acetylene trichloride; 1-chloro-2,2-dichloroethylene

### Exposure limits

ACGIH TLV (United States).  
TWA: 10 ppm 8 hour(s).  
STEL: 25 ppm 15 minute(s).  
OSHA PEL (United States).  
TWA: 50 ppm 8 hour(s).  
STEL: 200 ppm 15 minute(s).  
ACGIH TLV (United States).  
TWA: 5000 ppm 8 hour(s).  
STEL: 30000 ppm 15 minute(s).

CARBON DIOXIDE

### Personal Protective Equipment (PPE)

<b>Eyes</b>	Safety glasses.	
<b>Body</b>	Wear appropriate protective clothing to prevent skin contact. Recommended: Viton gloves.	
<b>Respiratory</b>	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.	

## Section 9. Physical and Chemical Properties

<b>Physical State</b>	Liquid. [Aerosol.]	<b>Color</b>	Clear. Colorless.
<b>pH</b>	Not available.	<b>Odor</b>	Chlorinated hydrocarbon. [Strong]
<b>Boiling Point</b>	87.2°C (189°F)	<b>Vapor Pressure</b>	8 kPa (60 mm Hg)
<b>Specific Gravity</b>	1.45	<b>Vapor Density</b>	4.5 [Air = 1]
<b>Solubility</b>	Insoluble in the following materials: cold water.	<b>Evaporation Rate</b>	3.1 (Ether (anhydrous). = 1)
		<b>VOC (Consumer)</b>	1458 (g/l). (100%)

## Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Reactive or incompatible with the following materials: oxidizing materials, metals and alkalis.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	May emit toxic fumes under fire conditions. carbon oxides (CO, CO <sub>2</sub> ), Phosgene gas. Hydrogen chloride (HCl).

## Section 11. Toxicological Information

### Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Trichloroethylene	LD50 Dermal	Rabbit	10000 mg/kg	-
	LD50 Oral	Rat	4920 mg/kg	-
	LD50 Oral	Mouse	2402 mg/kg	-

## Section 12. Ecological Information

**Environmental Effects** No known significant effects or critical hazards.

### Aquatic Ecotoxicity

Not available.

## Section 13. Disposal Considerations

### Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

**Waste Stream** Code: U228 - Unused Product  
Classification: - [Hazardous waste.]  
Origin: - [RCRA waste.]

## Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not available.	Consumer commodity	ORM-D		
IMDG Class	Not determined.				

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.

PG\* : Packing group

## Section 15. Regulatory Information

### U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:

#### Product name

Trichloroethylene

**Clean Water Act (CWA) 307:** Trichloroethylene

**Clean Water Act (CWA) 311:** Trichloroethylene (RQ 100 lbs)

**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

#### California Prop 65

**WARNING:** This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.:  
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.*

\*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.