

Material Safety Data Sheet



Superior Solutions

Zep, Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-877-I-BUY-ZEP (428-9937)
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Section 1. Chemical Product and Company Identification

Product name ERASE
Product use Aerosol Vandal Mark Remover
Product code 0311
Date of issue 11/05/09 **Supersedes** 05/23/05

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Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-I-BUY-ZEP (428-9937)

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

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KING COUNTY DIRECTORS ASSOCIATION
DOORS 19-24 REC HR 730-300
18639 80TH AVE S
KENT WA 98032-1003

Printing date: 05/06/10

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

Section 2. Hazards Identification

Emergency overview

DANGER !

FLAMMABLE LIQUID AND VAPOR. Vapor may cause flash fire. Do not smoke. Shut off all ignition sources. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. VAPOR HARMFUL. HARMFUL IF ABSORBED THROUGH SKIN. CONTENTS UNDER PRESSURE.

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

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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. Inhalation.

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

Skin Causes skin irritation. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering. Harmful if absorbed through the skin.

Inhalation Avoid inhalation of vapor, spray or mist. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Ingestion Aspiration hazard if swallowed. Can enter lungs and cause damage.

Chronic effects Repeated or prolonged exposure to the substance can produce damage to central nervous system, peripheral nervous system, brain, the reproductive system, kidneys, liver, mucous membranes and heart. May cause hearing impairment or change. Prolonged skin contact may cause dermatitis with drying and cracking of skin.

Carcinogenicity

Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure.

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Tetrachloroethylene	-	2A	-	-	Possible	-

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
TETRACHLOROETHYLENE; perchloroethylene; perc; carbon bichloride	127-18-4	40 - 50
TOLUENE; phenyl methane; methyl benzene; toluol	108-88-3	25 - 35
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	5 - 15
METHYL ETHYL KETONE; 2-butanone; MEK; methyl acetone	78-93-3	5 - 15
CARBON DIOXIDE	124-38-9	1 - 5

Section 4. First Aid Measures

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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 if irritation occurs.
Skin Contact	Wash affected area with soap or mild detergent and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. 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 immediately.
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, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

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



Flash Point	Not determined.
Flammable Limits	Not determined.
Flammability	Flammable aerosol (CSMA)
Fire hazard	Flammable liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. May emit toxic fumes under fire conditions. 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	Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Watch for accumulation in low confined areas.
Storage	Store and use away from heat, sparks, open flame or any other ignition source. Keep away from heat, sparks and flame. 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 container. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection**Product name**

TETRACHLOROETHYLENE; perchloroethylene; perc; carbon tetrachloride

Exposure limits**ACGIH TLV (United States).**

TWA: 25 ppm 8 hour(s).

STEL: 100 ppm 15 minute(s).

OSHA PEL (United States).

TWA: 100 ppm 8 hour(s).

CEIL: 200 ppm

TOLUENE; phenyl methane; methyl benzene; toluol

ACGIH TLV (United States). Absorbed through skin.

TWA: 50 ppm 8 hour(s).

OSHA PEL Z2 (United States).

TWA: 200 ppm 8 hour(s).

ETHANOL; ethyl alcohol; grain alcohol

ACGIH TLV / OSHA PEL (United States).

TWA: 1000 ppm 8 hour(s).

METHYL ETHYL KETONE; 2-butanone; MEK; methyl acetone

OSHA PEL (United States).

TWA: 200 ppm 8 hour(s).

ACGIH / OSHA (United States).

STEL: 300 ppm 15 minute(s).



CARBON DIOXIDE

ACGIH TLV (United States).

TWA: 5000 ppm 8 hour(s).

STEL: 30000 ppm 15 minute(s).

Personal Protective Equipment (PPE)

Eyes	Safety glasses or Splash goggles.	
Body	Recommended: 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 occupational exposure limits. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.	

Section 9. Physical and Chemical Properties

Physical State Liquid. (Aerosol.) Color Clear. Colorless. 31730
 pH Not applicable. Odor Solvent. [Strong]
 Boiling Point Not available. Vapor Pressure 5.9 kPa (44 mm Hg)
 Specific Gravity 0.93 Vapor Density Not available.
 Solubility Insoluble in the following materials: cold water and hot water. Evaporation Rate 1 (Carbon tetrachloride = 1)
 VOC (Consumer) 49.74 % (w/w) / 462 (g/l)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.
 Incompatibility Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
 Hazardous Polymerization Will not occur.
 Hazardous Decomposition Products Carbon dioxide, carbon monoxide, Hydrogen chloride (HCl), Chlorine and Phosgene gas.

Section 11. Toxicological Information**Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Tetrachloroethylene	LD50 Dermal	Rabbit	10000 mg/kg	-
	LD50 Oral	Rat	2629 mg/kg	-
Toluene	LD50 Oral	Rat	5000 mg/kg	-
	LC50 Inhalation Vapor	Mouse	5320 ppm	8 hours
Ethanol	LD50 Oral	Rat	7060 mg/kg	-
	LC50 Inhalation Vapor	Rat	20000 mg/m ³	4 hours

Section 12. Ecological Information**Aquatic Ecotoxicity**

Product/ingredient name	Test	Result	Species	Exposure
Tetrachloroethylene	-	Acute LC50 13 mg/L	Fish - Bluegill.	4 hours

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: D001
 Classification: - [Hazardous waste.]
 Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	None.	Consumer commodity 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.

PG* : Packing group

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

SARA 313 toxic chemical notification and release reporting:

Product name

Tetrachloroethylene
 Toluene
 Methyl Ethyl Ketone

Clean Water Act (CWA) 307: Tetrachloroethylene

Clean Water Act (CWA) 311: Toluene

Clean Air Act (CAA) 112 regulated toxic substances: Tetrachloroethylene; Toluene; Methyl Ethyl Ketone

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.:
Tetrachloroethylene, Toluene, Benzene

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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.