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Page 1 of 3

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP-ERASE
Product Use Aerosol Vandal Mark Remover
Product Code 0311
Date of issue 03/14/05 **Supersedes** 10/18/00

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

Prepared by Compliance Services Group
Acuity Specialty Products Group
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KING COUNTY DIRECTORS ASSOCIATION
18639 80TH AVE S
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Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
TETRACHLOROETHYLENE; perchloroethylene; perc; carbon bichloride	127-18-4	40 - 50	ACGIH TLV (United States). TWA: 25 ppm 8 hour(s). STEL: 100 ppm 15 minute(s).
TOLUENE; phenyl methane; methyl benzene; toluol	108-88-3	20 - 30	ACGIH TLV (United States). Skin TWA: 50 ppm 8 hour(s). OSHA PEL Z2 (United States). TWA: 200 ppm 8 hour(s).
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	10 - 20	ACGIH TLV (United States). TWA: 200 ppm 8 hour(s). OSHA PEL (United States). TWA: 400 ppm 8 hour(s).
METHYL ETHYL KETONE; 2-butanone; MEK; methyl acetone	78-93-3	<10	ACGIH/OSHA (United States). STEL: 400 ppm 15 minute(s). OSHA PEL (United States). TWA: 200 ppm 8 hour(s). ACGIH / OSHA (United States). STEL: 300 ppm 15 minute(s).

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Dermal contact. Inhalation. Ingestion.

Skin Hazardous in case of skin contact (irritant, permeator). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Eyes Hazardous in case of eye contact (irritant). Liquid in eye may cause irritation with possible damage if not rinsed immediately. Effects and symptoms: Irritation, redness, lacrimation, pain, blurred vision.

Inhalation Hazardous in case of inhalation (lung irritant). Can cause central nervous system depression. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness, and nausea, and may lead to unconsciousness or death. May cause irritation of respiratory tract, coughing, shortness of breath. 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. May be fatal if swallowed.

HMIS

Health	3
Physical Hazard	3
Reactivity	0
Personal Protection	B

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 Tetrachloroethylene: Classified Group 2A (Probable for human) by IARC, and Reasonably Anticipated To Be Human Carcinogen by NTP

Chronic Effects The substance may be toxic to kidneys, the nervous system, liver, heart, brain, gastrointestinal tract, central nervous system (CNS), ears (hearing impairment/change). Repeated or prolonged exposure to the substance can produce target organs damage. May cause specific developmental abnormalities.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.
Skin Contact Wash affected area with soap or mild detergent and water. Remove contaminated clothing and shoes. 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. 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 Closed cup: Less than 23°C (73°F). (Tagliabue.) Flammable Limits Not determined.
Flammability FLAMMABLE. (CSMA)
Fire Hazard FLAMMABLE LIQUID AND VAPOR. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. May emit toxic fumes under fire conditions.
Fire-Fighting Procedures Dry chemical, carbon dioxide, foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus. Cool closed containers exposed to fire with water.



Section 6. Accidental Release Measures

Spill Clean up Large spills are unlikely due to packaging.

Section 7. Handling and Storage

Handling Store and use away from heat, sparks, open flame, or any other ignition source. 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.
Storage Store and use away from heat, sparks, open flame, or any other ignition source. Keep away from heat and direct sunlight. Keep container in a cool, well-ventilated area. Do not store above 49°C (120.2°F). Do not puncture or incinerate. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

Eyes Splash goggles.
Body Chemical resistant gloves. (Viton, polyvinyl alcohol (PVA))
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.

Protective Clothing (Pictograms)



Section 9. Physical and Chemical Properties

Physical State Liquid. (Aerosol.) Color Clear. Colorless.
pH Not applicable. Odor Aromatic. Solvent-like. (Strong.)
Boiling Point Not determined. Vapor Pressure 5.9 kPa (44 mmHg) (at 20°C)
Specific Gravity 0.93 (Water = 1) Vapor Density Not determined.
Solubility Insoluble in cold water, hot water. Evaporation Rate 1.0 (Carbon tetrachloride)
VOC (Consumer) 49.8% 3.1 (lbs/gal) 373 (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

Toxicity to Animals Tetrachloroethylene:
ORAL (LD50): Acute: 2629 mg/kg [Rat].
DERMAL (LD50): Acute: 10000 mg/kg [Rabbit].
Toluene:
ORAL (LD50): Acute: 5000 mg/kg [Rat].
VAPOR (LC50): Acute: 5320 ppm 8 hour(s) [Mouse].
Isopropyl Alcohol:
ORAL (LD50): Acute: 4700 mg/kg [Rat].
DERMAL (LD50): Acute: 13000 mg/kg [Rabbit].
VAPOR (LC50): Acute: 22500 ppm 8 hour(s) [Rat (Male)]. 19000 ppm 8 hour(s) [Rat (Female)].

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: D001 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.

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.

Section 15. Regulatory Information

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting: Tetrachloroethylene Toluene Methyl Ethyl Ketone Clean Water Act (CWA) 311: Tetrachloroethylene; 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.

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.