



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name ERASE
Product use Aerosol Vandal Mark Remover
Product code 0311
Date of issue 05/31/11 **Supersedes** 06/23/08

Emergency Telephone Numbers

For MSDS Information:
 Technical Services Group
 Telephone (780) 453-8100
 (Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency

CANUTEC (24 Hours)
 (613) 996-6666 - Call Collect

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Section 2. Hazards Identification

Emergency overview

DANGER !

FLAMMABLE LIQUID AND VAPOR. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION. VAPOR HARMFUL. HARMFUL IF ABSORBED THROUGH SKIN. CONTENTS UNDER PRESSURE.

Do not breathe vapor or mist. Contains material that may cause target organ damage, based on animal data. Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

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. 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.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
TETRACHLOROETHYLENE; perchloroethylene; perc; carbon bichloride	127-18-4	30 - 60
TOLUENE; phenyl methane; methyl benzene; toluol	108-88-3	15 - 40
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	7 - 13
METHYL ETHYL KETONE; 2-butanone; MEK; methyl acetone	78-93-3	5 - 10
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 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

Flash Point	Not determined.
Flammable Limits	Not determined.
Flammability	Flammable aerosol (CSMA)
Auto-ignition Temperature	
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.
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.
Products of Combustion	carbon oxides (CO, CO ₂) Hydrogen chloride (HCl). Chlorine. and Phosgene gas.
Explosion hazard	

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. Wash thoroughly after handling.
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

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

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

ACGIH TLV / OSHA PEL (United States).

TWA: 1000 ppm 8 hour(s).

Methyl Ethyl Ketone

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.
Hands and 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.
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)
Freezing Point		VOC (Consumer)	45.0% 5.75 (lb/gal) 689 (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 Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Carcinogenicity Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure. Tetrachloroethylene: Classified Group 2A Probable for human. by IARC, Classified as possible human carcinogen by NTP.

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Tetrachloroethylene	LD50 Dermal	Rabbit	10000 mg/kg	-
	LD50 Oral	Rat	2629 mg/kg	-
Toluene	LC50 Inhalation Vapor	Mouse	5320 ppm	8 hours
	LD50 Oral	Rat	5000 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	20000 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-

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 applicable 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	Additional information
TDG Classification	1950	Aerosols, flammable	2.1			<u>Explosive Limit and Limited Quantity Index</u> 1
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. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information**Canada****WHMIS (Canada)**

Class A: Compressed gas.

Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

Class D-1B: Material causing immediate and serious toxic effects (Toxic).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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.