

MATERIAL SAFETY DATA SHEET

5100 W. Henrietta Rd.
West Henrietta, NY 14586
TEL: (866) 260-0501

MSDS No. 9613306
Effective Date: December 1, 2005

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Trichloroethylene	416-984-3000 NFPA 1 3 2 HAZARD RATING Minimal 0 Slight 1 Moderate 2 Serious 3 Severe 4 WHMIS <table><tr><td>Health</td><td>3</td></tr><tr><td>Flammability</td><td>1</td></tr><tr><td>Reactivity</td><td>2</td></tr></table>	Health	3	Flammability	1	Reactivity	2
Health	3							
Flammability	1							
Reactivity	2							
Chemical Synonyms	Ethylene Trichloride							
Formula	CHCl:CCl ₂							
CAS No.	79-01-6							

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Trichloroethylene (stabilized)	> 99%	TWA: 50 ppm; STEL: 100 ppm
WARNING! SUSPECT CANCER HAZARD.		

SECTION III PHYSICAL DATA

Melting Point (°C)	- 86.4°C	Specific Gravity (H ₂ O = 1)	1.465 @ 25/20°C
Boiling Point (°C)	86 - 88 °C	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	58 mm @ 20°C	Evaporation Rate (=1)	0.28
Vapor Density (Air=1)	4.54		
Solubility in Water	0.11% in water @ 25°C		
Appearance & Odor	Clear, colorless liquid; ether odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	None.	Flammable Limits in Air % by Volume	Lower 7.8%	Upper 52%
Firefighting Procedures	Use dry chemical, CO ₂ , alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.			

Flammability and Explosion Hazards

Trichloroethylene emits highly toxic and corrosive fumes of hydrogen chloride and possible traces of phosgene when heated to decomposition. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back immediately.

TDG Class 6.1 Poisonous material. UN1710
Class 9.2 Environmentally hazardous material.

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Printed on recycled paper.

HS Flam C 5

SECTION V REACTIVITY DATA

Chemical Stability	Yes	X	If no, under what conditions?
	No		
Incompatible with Other products	Yes	X	Caustic soda, caustic potash and oxidizing materials.
	No		

Hazardous Decomposition Products	Hydrogen chloride gas and possible traces of phosgene.
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Reactive under what conditions	Vapor concentrations can be ignited by contact with excessive heat, sparks or flames.
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SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion. Inhalation. Eyes. Skin.
TLV	TWA: 50 ppm; STEL: 100 ppm (ACGIH 2001)
Toxicity for animals	Oral-rat: LD50: 5650 mg/kg.
Chronic effects on humans	Repeated or prolonged exposure to the substance can produce target organ damage. Suspected carcinogen based on tests with laboratory animals. Target organs: Liver, kidneys.
Acute effects on humans	Harmful if inhaled or swallowed. Causes eye and skin irritation.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep in a cool, well ventilated place. Keep container tightly closed. Keep away from incompatible materials. Remove all sources of ignition.
Precautions	Avoid contact with skin and eyes. DO NOT inhale vapor or spray. DO NOT ingest. If ingested, seek medical advice immediately.
Spill or leak	Absorb with an inert dry material and place in an appropriate waste disposal container. Wash spill area with soap and water.
Protective Clothing	Splash goggles, lab coat, vapor respirator, gloves.

SECTION VIII FIRST AID MEASURES

Specific first aid measures	Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.
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SECTION IX PREPARATION OF THE MSDS

Rev. No.	2	Date	December 1, 2005	Approved	Michael Raszeja
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