

## Scholar M Scholar Chemistry West I

## **MATERIAL SAFETY DATA SHEET**

5100 W. Henrietta Rd. West Henrietta, NY 145 TEL: (866) 260-0501

st Henrietta, NY 14586	MSDS No.	9613306
.: (866) 260-0501	Effective Date:	December 1, 2005

SECTION	I NAME	24 HOUR EMERGENCY ASSISTAN	1C
Product	Trichloroethylene	416-984-3000 Health	3
Chemical Synonyms	Ethylene Trichloride	NFPA 3 2 Flammability	1
Formula	CHCI:CCI <sub>2</sub>	HAZARD RATING WHMIS	2
CAS No.	79-01-6	Minimal Slight Moderate Serious Sev 0 1 2 3 4	rere Į
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SECTION II DANGEROUS INGRE	DIENTS		
Name	%	TLV Units	
Trichloroethylene (stabilized)	> 99%	TWA: 50 ppm; STEL: 100 pp	
WARNING! SUSPECT CANCER HAZARD.			

SECTION III	PHYSICAL DA	TA		
Melting Point (°C)	- 86.4°C	Specific Gravity (H <sub>2</sub> 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.			

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SECTION IV	FIRE A	ND EXPLOSION HAZAR	D DATA			
		Flammable Limits in Air	Lower	Upper		
Flash point	None.	% by Volume	7.8%	52%		
Firefighting						
Procedures						

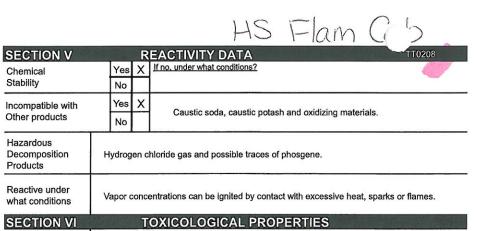
Use dry chemical, CO2, alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.

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.
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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

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

FIRST AID MEASURES

**SECTION VIII** 

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.

SECTION	IX	PREPARATION OF THE MSDS				
Rev. No.	2	Date	December 1, 2005	Approved	Michael Raszeja	