

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: Trichloroethylene**

**TR200-00**

### SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

<b>MANUFACTURER:</b>	Same as above	
<b>PREPARED BY:</b>	Production Department	
<b>VERSION DATE:</b>	10-Mar-15	
<b>TELEPHONE NO.:</b>	(519) 451-1614	
<b>EMERGENCY PHONE NO.:</b>	(613) 996-6666	
<b>CHEMICAL FAMILY</b>	Not Available	<b>CHEMICAL FORMULA</b> Not Applicable
<b>MOLECULAR WEIGHT</b>	Not Applicable	<b>MATERIAL USE:</b> Please Refer to technical literature
<b>SYNONYMS:</b>	Trichlor	

### SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Trichloroethylene	100	79-01-6	5650 mg/kg	8450 ppm/4H	N.Av.

### SECTION 03: HAZARD IDENTIFICATION

#### ROUTE OF ENTRY

**Eyes:** Causes moderate to severe irritation, experienced as discomfort or pain, excess blinking and tear production, with marked excess redness and swelling of the conjunctiva.

**Skin:** Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis). A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

**Inhalation** This product is primarily a central nervous system depressant. Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Fatalities following severe acute exposure to various chlorinated solvents have been attributed to ventricular fibrillation.

**Ingestion:** May result in irritation of the mouth and gastrointestinal tract. May cause same effects as detailed under inhalation. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury. Aspiration Pneumonitis: signs/symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

### SECTION 04: FIRSTAID

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and laundry before reuse. Destroy or thoroughly clean contaminated shoes.

**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Inhalation, Acute** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**Ingestion:** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

**Notes to physician:** Only administer adrenaline after careful consideration following overexposure. Increased sensitivity of the heart to adrenaline may be caused by overexposure to this product.

#### SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

<b>FLAMMABLE?</b>	No
<b>IF YES, UNDER WHICH CONDITIONS?</b>	
<b>FLASH POINT (TCC) (C):</b>	Not Available
<b>FLAMMABLE LIMITS:</b>	<b>LEL(% BY VOL.):</b> 7.8 (Air) <b>UEL(% BY VOL):</b> 52 (Air)
<b>AUTO IGNITION TEMPERATURE (C)</b>	Not Available
<b>EXTINGUISHING MEDIA</b>	Use DRY chemicals, CO2, alcohol foam or water spray.
<b>SPECIAL PROCEDURES:</b>	Fire fighters should wear full protective clothing, including self-contained breathing equipment.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Not Available
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>	Emits toxic fumes under fire conditions. Vapor concentration in a confined or poorly ventilated area can be ignited upon contact with a high energy spark, flame or high intensity source of heat.
<b>SENSITIVITY TO STATIC DISCHARGE</b>	Not Available
<b>SENSITIVITY TO MECHANICAL IMPACT:</b>	Not Available

#### SECTION 06: ACCIDENTAL RELEASE MEASURES

**Leak and Spill Procedure:** Procedure for Clean Up: Immediately evacuate the area. Ventilate area. Restrict access to unprotected personnel. Try to work upwind of spill. Absorb with an inert dry material and place in an appropriate waste disposal container. After all visible traces have been removed, thoroughly wet vacuum the area.  
Personal Precautionary Measures: Wear appropriate protective equipment.  
Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Prevent contamination of soil. Consult local authorities

#### SECTION 07: HANDLING AND STORAGE

##### Handling Procedures and Storage Requirements

Handling: Vapors are heavier than air and will collect in low areas. Keep the containers closed when not in use. This material or its vapors when in contact with flames, hot glowing surfaces or electric arcs can decompose to form hydrogen chloride gas and possible traces of phosgene. DO NOT pressurize, cut, heat, or weld containers. Containers, even those that have been emptied, will retain product residue and vapour and should be handled as if they were full until they have been cleaned. Do not ship lightly stabilized grades in aluminum trailers. The only exception is Type 145 vapor degreasing grade. Liquid oxygen or other strong oxidants may form explosive mixtures with this product.

Storage: Keep containers tightly closed. Place away from incompatible materials. Store in accordance with good industrial practices.

#### SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

<b>GLOVES/TYPE:</b>	Viton gloves. Polyvinyl alcohol gloves.
<b>RESPIRATOR/TYPE:</b>	When respiratory protection is required for certain operations (<10X exposure limit), use an air purifying respirator. The effectiveness of an air purifying respirator is limited. Use only for a single short-term exposure. For high airborne concentrations, use a NIOSH -approved supplied-air respirator, either self-contained or airline breathing apparatus, operated in positive pressure mode.
<b>EYE/TYPE:</b>	Chemical goggles; also wear a face shield if splashing hazard exists.
<b>OTHER/TYPE:</b>	Ensure that eyewash stations and safety showers are proximal to the work-station location.
<b>ENGINEERING CONTROL</b>	Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

#### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE/APPEARANCE:</b>	Liquid, Clear Colourless		
<b>ODOUR:</b>	Ether-like	<b>ODOUR THRESHOLD:</b>	N. Av.
<b>VAPOUR PRESSURE (mm Hg @ 20C):</b>	57.8 mmHg	<b>VAPOUR DENSITY (Air=1):</b>	4.54.
<b>EVAPORATION RATE (Ether = 1):</b>	0.28	<b>SPECIFIC GRAVITY:</b>	1.465

<b>BOILING POINT (C):</b>	86 - 88 (F)	<b>FREEZING POINT (C)</b>	-86.4 (F)
<b>Ph (% SOLUTION):</b>	6.7 - 7.5	<b>% VOLATILE (WT):</b>	
<b>SOLUBILITY IN WATER (% W/W)</b>	0.11%		

**SECTION 10: STABILITY AND REACTIVITY**

**CHEMICALLY STABLE?** Stable

**IF NO, UNDER WHICH CONDITIONS?**

**INCOMPATIBILITY WITH OTHER SUBSTANCES**

**IF YES, WITH WHICH ONES:** Oxidizing materials. Avoid excessive heat, open flames and all ignition sources.

**SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS**

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride. Phosgene.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**EXPOSURE LIMIT OF MATERIAL**

**LC 50 OF MATERIAL, SPECIES AND ROUTE**

**LD 50 OF MATERIAL, SPECIES AND ROUTE**

**CARCINOGENICITY OF MATERIAL**

**REPRODUCTIVE EFFECTS:**

**IRRITANCY OF MATERIAL**

**SENSITIZING CAPABILITY OF MATERIAL**

**SYNERGISTIC MATERIALS**

**SECTION 12: ECOLOGICAL INFORMATION**

**AQUATIC TOXICITY** Slightly toxic to aquatic life.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.  
Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

**SECTION 14: TRANSPORT INFORMATION**

**TDG CLASSIFICATION** Class 6.1, Trichloroethylene

**UN NUMBER:** 1710

**PACKING GROUP:** III

**Special Provisions for Transport**

**SECTION 15: REGULATORY INFORMATION**

**WHMIS CLASSIFICATION** D1B, D2A, D2B

D1B TOXIC MATERIALS

D2A VERY TOXIC MATERIALS

D2B TOXIC MATERIALS

**SECTION 16: OTHER INFORMATION**

**ABBREVIATIONS USED:** N.Av. = Not Available  
N.App. / N.Ap. = Not Applicable

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