

M S D S***Material Safety Data Sheet***

24 HOUR EMERGENCY
TELEPHONE NUMBER
CALL CHEMTREC
1-800-424-9300

189 Twin County Road • Morgantown, PA 19543 • (610) 524-5810

Trichloroacetic Acid 5 to 100%

Section I: IDENTIFICATION

Product Name: **Trichloroacetic Acid 5 to 100%**

Azer Scientific Catalog Number(s): ES675-4, ES675-16, ES676-4, ES676-16, ES677-4, ES677-16, ES678-4, ES678-16, ES679-4, ES679-16, ES680-4, ES680-16, ES681-4, ES681-16, ES682-4, ES682-16, ES683-4, ES683-16, ES684-4, ES684-16, ES685-4, ES685-16, ES686, ES686-4, ES686-16, ES687-4, ES687-16, ES688-4, ES688-1

Section II: HAZARDOUS INGREDIENTS

<i>Hazardous Component(s):</i>	<i>CAS#</i>	<i>OSHA PEL, ACGIH TLV/STEL(PPM)</i>		NFPA	
Trichloroacetic 5 to 100%	108-95-2	1 ppm	1/NA	Health	3
				Flammability	0
				Reactivity	0

Note: Vapors are very corrosive!

Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~200°F	<i>Specific Gravity (H₂O = 1):</i>	~1 to 1.6 (100%)
<i>Vapor Pressure mm Hg/20 °C:</i>	1.3	<i>Percent Volatile by Vol:</i>	NE
<i>Vapor Density (Air 1:1):</i>	5.6	<i>Evaporation Rate (ether = 1):</i>	>NE
<i>Solubility in H₂O:</i>	Complete	<i>Appearance & Odor:</i>	Clear liquid, phenolic odor (pungent)

Section IV: FIRE/EXPLOSION HAZARD

Flash Point: NA *Flammable Limits:* LEL, NA UEL, NA
Extinguishing Media: Water spray, dry chemical, CO₂ and foam
Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.
Unusual Fire & Explosion Hazards: None known (10 to 100% concentrations are very corrosive)

Section V: REACTIVITY

Stability: Stable

Material to Avoid: Strong bases - acid solutions can react with metals to liberate hydrogen gas.

Hazardous Decomposition or Byproducts: Oxides of carbon, chloroform and hydrogen chloride

Hazardous Polymerization: Does not occur

Conditions to Avoid: Excessive heat

Section VI: HEALTH HAZARDS

Solutions are very corrosive!

Routes of Entry: Inhalation, Skin and Ingestion

Acute: Vapors may cause eyes, skin and respiratory irritation.

Chronic: Repeated exposure may cause general deterioration of health by accumulation.

Carcinogenicity: Not classified as a human carcinogen.

Signs/Symptoms of Exposure: Eyes, skin and respiratory irritation.

******Emergency First Aid******

Skin: Remove contaminated clothing. Wash affected area with soap and water.

Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persists.

Ingestion: Rinse mouth with water, drink large quantities of water or milk provided person is conscious and contact a physician immediately.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section VII: SAFE HANDLING

Chemical Release or Spill: Wear respiratory protection. Ventilate area. Isolate the spill area with sand, or other absorbent material. Neutralize with sodium bicarbonate. Place all contaminated material in closed container for disposal.

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Normal handling and storage for liquids. Avoid excessive heat.

Section VIII: CONTROL MEASURES

Respiratory Protection: Not normally required. If used in a poorly ventilated area use under an approved fume hood or NIOSH approved respirator.

Ventilation: Mechanical exhaust is sufficient.

Protective Gloves: Chemical resistant

Eye Protection: Safety glasses

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

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