

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

**Section 1: Identification**
**Product Name** Trichloroacetic Acid ACS Reagent Crystals

**Commercial Name** Not available.

**Product Use** Manufacture of substances

**Restrictions On Use** Not available.

**Product Code** 50-1243

**Company** PCCA  
 9901 South Wilcrest  
 Houston, TX 77099  
 Phone: 1-800-331-2498  
 Fax: 1-800-874-5760

 In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**
**Section 2: Hazard(s) Identification**
**OSHA Haz Com:** Acute toxicity, Oral (Category 5) Skin corrosion (Category 1A) Skin Corrosion/Irritation Category 1 A  
**CFR 1910.1200** Serious Eye Damage/Eye Irritation Category 1 Carcinogenicity Category 2 Specific target organ toxicity (single exposure) Category 3 Target Organs - Respiratory system.

**Signal Word** DANGER

**Hazard Statement(s)** MAY BE HARMFUL IF SWALLOWED. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. CAUSES SERIOUS EYE DAMAGE. SUSPECTED OF CAUSING CANCER. VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

**Pictogram(s) or Symbol(s)**

**Precautionary Statement(s):**

<b>Prevention</b>	Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Use only outdoors or in a well-ventilated area
<b>Response</b>	Immediately call a POISON CENTER or doctor/physician IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
<b>Storage</b>	Store locked up Store in a well-ventilated place. Keep container tightly closed
<b>Disposal</b>	Dispose of contents/container to an approved waste disposal plant

**Section 3: Composition/Information on Ingredients**

<b>Substance/Mixture</b>	Substance
<b>Components</b>	Trichloroacetic acid
<b>% By Weight</b>	>95%
<b>CAS#</b>	76-03-9
<b>Molecular Weight</b>	N/A
<b>Chemical Formula</b>	N/A
<b>Synonym(s)</b>	TCA

**Mixtures**

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Trichloroacetic acid	76-03-9	100	TWA: 1 (ppm) from ACGIH (TLV)[1995]TWA: 6.7(mg/m3) fromACGIH [1995]	Not available.

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**Section 4: First-Aid Measures**

<b>Inhalation</b>	Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately. If not breathing, give artificial respiration.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.
<b>Ingestion</b>	Do NOT induce vomiting. Immediate medical attention is required. Never give anything by mouth to an unconscious person. Drink plenty of water.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
<b>Delayed</b>	Not available
<b>Immediate Medical Attention</b>	Treat symptomatically

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.**Unsuitable Extinguishing Media**

Dry chemical

**Products of Combustion**Chloroform. Carbon dioxide (CO<sub>2</sub>). Phosgene. Thermal decomposition can lead to release of irritating gases and vapors. Hydrogen chloride gas**Firefighters Special Equipment and Precautions**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

**Section 6: Accidental Release Measures**

Personal Precautions: Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Environmental Precautions: Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Methods for Containment and Clean Up: Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

**Section 7: Handling and Storage**

Handling Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Incompatible Materials. Strong oxidizing agents. Bases. Metals

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Trichloroacetic acid ACGIH TLV: TWA: 0.5 ppm OSHA PEL: (Vacated) TWA: 1 ppm; (Vacated) TWA: 7 mg/m <sup>3</sup> NIOSH IDLH: TWA: 1 ppm; TWA: 7 mg/m <sup>3</sup>
<b>Engineering Controls</b>	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

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**Personal Protection**

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166. Tight sealing safety goggles. Face protection shield. Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

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**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Solid. White		
<b>Odor</b>	Of vinegar		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	52 - 58 °C / 125.6 - 136.4 °F	<b>pH</b>	1.2 (0.1M)
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	1.2 mbar @ 50°C, 0.08 mbar @25°C
<b>Boiling Point/Range</b>	196 °C / 384.8 °F @ 760 mm	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available.	<b>Evaporation Rate</b>	Not available.
<b>Flash Point</b>	Not available,	<b>Autoignition temperature</b>	Not available.
<b>Flammability</b>	Not available.	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available.
		<b>Upper</b>	Not available.
<b>Solubility(ies)</b>	Soluble in water		
<b>Other</b>	C2 H Cl3 O2 Molecular Weight 163.39		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Stable under normal storage conditions.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Incompatible products. Excess heat.
<b>Incompatible Materials</b>	Strong oxidizing agents, Bases, Metals
<b>Hazardous Decomposition Products</b>	s Chloroform, Carbon dioxide (CO2), Phosgene, Thermal decomposition can lead to release of irritating gases and vapors, Hydrogen chloride gas

**Section 11: Toxicological Information**

<b>RTECS</b>	Not available
<b>Acute Toxicity</b>	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.
<b>Skin Corrosion/Irritation</b>	Not available
<b>Serious Eye Damage/Irritation</b>	Not available
<b>Respiratory or Skin Sensitization</b>	Not available
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity</b>	Group 1 - Carcinogenic to Humans; Group 2A - Probably Carcinogenic to Humans; Group 2B - Possibly Carcinogenic to Humans
<b>Reproductive Toxicity</b>	No data available
<b>Routes of Entry</b>	Not available

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**Symptoms Related to Exposure**

Not available

**Potential Health Effects**

Not available

**Target Organ(s)** Not available.**Section 12: Ecological Information****Ecotoxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Freshwater Algae: 0.27 mg/l Freshwater Fish: >277 mg/l Microtox: Not listed Water Flea: 110 mg/l

**Persistence and Degradability**

Soluble in water Persistence is unlikely based on information available.

**Bioaccumulative Potential**

No data available

**Mobility in Soil**

Will likely be mobile in the environment due to its water solubility

**Other Adverse Effects**

Not available.

**Section 13: Disposal Considerations****Waste Disposal**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**Disposal of Container**

Not available

**Other Considerations**

Not available

**Section 14: Transport Information****DOT Classification**

DOT UN-No UN1839 Proper Shipping Name TRICHLOROACETIC ACID Hazard Class 8 Packing Group II

**Section 15: Regulatory Information****Regulations**

TSCA: X TSCA Inventory notification - Active-Inactive: Active TSCA - EPA Regulatory Flags: -

**Other**

None available.

**Section 16: Other Information**

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