

# TRICHLOROACETIC ACID

## Section 1 - Chemical Product and Company Identification

**SDS Name:** Trichloroacetic Acid.

**Catalog Numbers:** SO-1248

**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

## Section 2 - Hazards Identification

### GHS Classifications Category HEALTH HAZARDS

H305-Aspiration hazard: 2

H333-Acute Inhalation Toxicity: 5

H314- Skin Corrosion/Skin Irritation: 1B

H318-Eye Damage/Irritation: 1

H360-May damage fertility or the unborn child: 1

### PHYSICAL HAZARDS Category

H290-Corrosive to Metals: 1

### Pictogram or Hazard Symbols

Warning: May be harmful if swallowed and enters airways.

Warning: May be harmful if inhaled.



Danger: Causes severe skin burns and eye damage.

Warning: May be corrosive to metals.



Danger: May damage fertility or the unborn child.

### Precautionary Statement.

#### H-305

**P301+P310+P331**IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**P331**-Do NOT induce vomiting.

**P405**-Store locked up.

**P501**-Dispose of contents/container to in accordance with local/regional/national/international regulations.

#### H333

**P304+P312**-IF INHALED: call a POISON CENTER or doctor/physician if you feel unwell.

**P264**-Wash thoroughly after handling.

**P280**-Wear protective gloves.

**P260**-Do not breathe dust or mist.

#### H314

**P303+P361+P353**-IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**P363**-Wash contaminated clothing before reuse.

**P310**-Immediately call a POISON CENTER or doctor/physician.

#### H318

**P305+P351+P338**-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### H360

**P201**-Obtain special instructions before use.

**P202**-Do not handle until all safety precautions have been read and understood.

**P281**-Use personal protective equipment as required.

#### H290

**P234**-Keep only in original container.

**P390**-Absorb spillage to prevent material damage.

**P406**-Store in corrosive resistant/container with a resistant inner liner

**Danger: Causes severe skin burns and eye damage. May damage fertility or the unborn child.** Use only in a well-ventilated area. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.  
**Warning: May be harmful if swallowed and enters airway. May be harmful if inhaled.** Do not breathe fume/gas/mist/vapors/spray. **May be corrosive to metals.** Keep only in original container.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
76-03-9	Trichloroacetic Acid	100

### Section 4 - First Aid Measures

**Eye Exposure:** Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause permanent eye damage or blindness. Seek medical attention.

**Dermal Exposure:** Obtain medical attention: Corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing, get medical attention. May cause deep, penetrating burns.

**Oral Exposure:** Will cause severe burns to the mouth and severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get Medical Attention immediately. Do not induce vomiting; give large quantities of water.

**Inhalation Exposure:** If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Inhalation of vapors may cause coughing choking, inflammation of the nose, throat, and upper respiratory tract. In severe cases, may pulmonary edema, circulatory failure, and death.

### Section 5 - Fire Fighting Measures

**NFPA** HEALTH **3** FLAMMABILITY **0** REACTIVITY **0**

**Extinguishing media:** Water spray. Neutralize with soda ash or slaked lime

**Special fire fighting procedures:** Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes. Extreme heat or contact with metals can release flammable hydrogen gas.

**Toxic gases released:** Hydrogen chloride, hydrogen gas.

### Section 6 - Accidental Release Measures

**Methods for Cleaning up:** Ventilate area of leak or spill. Stop leak if possible to do so without risk. Clean-up personnel should wear protective clothing and NIOSH approved respirator. Dike and cover the contaminated areas with absorbent, non-combustible material such as earth, sand, or vermiculite. Neutralize with alkaline material such as soda ash or lime. Do not use combustibles. Do not flush to sewer.

### Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Do not breathe mist or vapor. Do not expose eyes, skin, or clothing. Keep container closed

tightly. Avoid contact with combustibles. Do not use with metal tools or items. Use with adequate ventilation or respiratory protection. Do not store near combustibles or in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Separate from metals, alkali, and organics. Residue in empty containers may still be hazardous.

## Section 8 - Exposure Controls, Personal Protection

**Respiratory protection:** Wear NIOSH/MESA approved full or half face piece (with goggles) respiratory protective equipment to avoid exposure to iodine vapors above 0.1 ppm. A respiratory protection program complying with requirements of 29 CFR 1910.134 is recommended.

**Ventilation:** Where adequate ventilation is not available, use NIOSH approved vapor respirator with dust, fume and mist filters. Local ventilation through fume hoods or laminar flow stations is also preferred. Keep fumes away from strong bases.

**Personal Protective Equipment:**

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles/ face shield.

## Section 9 - Physical and Chemical Properties

**Physical State:** Solid. (Crystals)

**Appearance:** Colorless

**Odor:** pungent

**pH:** < 1 acidic

**Melting point:** 57.5 deg. C (383.9 deg F)

**Ignition point:** Will not ignite

**Evaporation Rate (water=1)** no information

**Boiling Point:** 195.5°C (383.9°F)

**Solubility:** Soluble.

**Specific Gravity/Density:** 1.6126 @ 64 deg. C (Water=1)

**Solubility in/Miscibility:** Completely miscible in water

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to avoid:** Incompatible materials, moisture.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities with other materials:** Reactive with oxidizing agents, metals.

## Section 11 - Toxicological Information

**Acute:**

LC50: Not available

LD50: Not available

Investigated as a tumorigen, mutagen, and reproductive effector.

**Carcinogenicity:** Classified A3 (Proven for animal) ACGIH (no clasificable for human)

Section 12 - Ecological Information

**Product of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Section 13 - Disposal Considerations

**Appropriate method of disposal of substance or preparation:**

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved waste facility.

Section 14 – Transport Information

**DOT**

Class 8

PG II

UN 1839

Shipping Name: Trichloroacetic Acid.

Section 15 - Regulatory Information

**Symbol: C, Corrosive**

**Risk and Safety phrases**

**R-35, Causes severe burns**

**S-Phrases: 23-36/37/39-45.** Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible)

The following component of this product is regulated as a toxic chemical under section 313 or Title III SARA, and 40 CFR 372: hydrochloric Acid CAS# 7647-01-0

Section 16 - Additional Information

**MSDS Creation Date:** August 15, 2013

**Revision #**

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