Section 1: Chemical Product and Company Identification

**Product Name:** Trichloroacetic Acid Solution, 30% (w/v)  
**Catalog Codes:** SLT1186  
**CAS#:** Mixture.  
**RTECS:** Not applicable.  
**TSCA:** TSCA 8(b) inventory: Trichloroacetic acid; Water  
**CI#:** Not applicable.  
**Synonym:**  
**Chemical Name:** Not applicable.  
**Chemical Formula:** Not applicable.  

**Contact Information:**  
Sciencelab.com, Inc.  
14025 Smith Rd.  
Houston, Texas 77396  
US Sales: 1-800-901-7247  
International Sales: 1-281-441-4400  
Order Online: ScienceLab.com  
CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300  
International CHEMTREC, call: 1-703-527-3887  
For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

**Composition:**

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trichloroacetic acid</td>
<td>76-03-9</td>
<td>30</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>70</td>
</tr>
</tbody>
</table>

**Toxicological Data on Ingredients:** Trichloroacetic acid LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

**Potential Acute Health Effects:**  
Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Hazardous in case of skin contact (corrosive), of eye contact (corrosive). Slightly hazardous in case of inhalation (lung sensitizer). Non-corrosive for lungs. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Potential Chronic Health Effects:**  
CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH [Trichloroacetic acid]. Classified 3 (Not classifiable for human.) by IARC [Trichloroacetic acid]. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. [Trichloroacetic acid]. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to lungs. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact
with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

### Section 4: First Aid Measures

#### Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

#### Skin Contact:
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

#### Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

#### Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

#### Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

#### Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Serious Ingestion:
Not available.

### Section 5: Fire and Explosion Data

#### Flammability of the Product: Non-flammable.

#### Auto-Ignition Temperature: Not applicable.

#### Flash Points: Not applicable.

#### Flammable Limits: Not applicable.

#### Products of Combustion: Not available.

#### Fire Hazards in Presence of Various Substances: Not applicable.

#### Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

#### Fire Fighting Media and Instructions: Not applicable.

#### Special Remarks on Fire Hazards: Not available.

#### Special Remarks on Explosion Hazards: Not available.

### Section 6: Accidental Release Measures

#### Small Spill:
Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

**Large Spill:**
Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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**Section 7: Handling and Storage**

**Precautions:**
Do not breathe gas/fumes/vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, metals. May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package.

**Storage:**
Keep container tightly closed. Keep container in a cool, well-ventilated area. Corrosive materials should be stored in a separate safety storage cabinet or room.

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

**Engineering Controls:**
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

**Personal Protection:**

**Personal Protection in Case of a Large Spill:**
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:**
Trichloroacetic acid TWA: 1 (ppm) from ACGIH (TLV) [United States] TWA: 1 from NIOSH [United States] TWA: 7 (mg/m3) from NIOSH [United States] TWA: 7 (mg/m3) from OSHA (PEL) [United States] TWA: 1 (ppm) from OSHA (PEL) [United States] TWA: 1 (ppm) [Canada] TWA: 6.7 (mg/m3) [Canada] TWA: 1 (ppm) [United Kingdom (UK)] TWA: 1 (ppm) [France] TWA: 5 (mg/m3) [United Kingdom (UK)] TWA: 5 (mg/m3) [France]3 Consult local authorities for acceptable exposure limits.

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**Section 9: Physical and Chemical Properties**

**Physical state and appearance:** Liquid.

**Odor:** Not available.

**Taste:** Acid. (Strong.)

**Molecular Weight:** Not applicable.

**Color:** Clear Colorless.

**pH (1% soln/water):** Acidic.

**Boiling Point:** The lowest known value is 100°C (212°F) (Water).

**Melting Point:** Not available.
Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, metals.

Corrosivity:
Extremely corrosive in presence of aluminum, of zinc, of copper, of stainless steel(304). Highly corrosive in presence of stainless steel(316). Non-corrosive in presence of glass.

Special Remarks on Reactivity: Incompatible with iron, zinc, aluminum. (Trichloroacetic acid)

Special Remarks on Corrosivity: Corrosive to iron, zinc, aluminum (Trichloroacetic acid)

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
LD50: Not available. LC50: Not available.

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified A3 (Proven for animal.) by ACGIH [Trichloroacetic acid]. Classified 3 (Not classifiable for human.) by IARC [Trichloroacetic acid]. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. [Trichloroacetic acid]. Contains material which may cause damage to the following organs: lungs.

Other Toxic Effects on Humans:
Very hazardous in case of skin contact (irritant), of ingestion,. Hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung corrosive).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:
May cause adverse reproductive effects and birth defects(teratogenic). May affect genetic material (mutagenic). May cause cancer. (Trichloroacetic acid)

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Causes severe skin irritation, thickening of the skin, blisters, and burns. It causes mild to moderate burns of the skin. It is not readily absorbed through intact skin. Eyes: Causes severe irritation, and burns of the
It causes mild to moderate burns of the eyes. Inhalation: Extremely irritating to the upper respiratory tract (nose, throat). Effects of acute inhalation include coughing, choking, dizziness, weakness, followed by air hunger, swelling of the throat, pulmonary edema, frothy sputum, dyspnea, cyanosis, tachycardia, and an increase in red blood cell count and hematocrit. Ingestion: Causes digestive tract irritation, and burns. Systemic effects following ingestion are secondary to gastrointestinal tract damage and acidosis. Ingestion causes drooling, stridor, severe burning pain in the mouth, throat, esophagus, abdomen (stomach), followed by bloody vomiting and diarrhea. Chronic Potential Health Effects: Skin: Prolonged or repeated skin contact may cause skin irritation and dermatitis. Inhalation: Chronic inhalation may cause erosion of the tooth enamel, jaw necrosis, bronchial irritation, chronic.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

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

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Class 8: Corrosive material

Identification: Trichloroacetic acid, solution (Trichloroacetic acid) UNNA: 2564 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Connecticut hazardous material survey.: Trichloroacetic acid Illinois toxic substances disclosure to employee act:
Trichloroacetic acid Rhode Island RTK hazardous substances disclosure to employee act:
Trichloroacetic acid Pennsylvania RTK: Trichloroacetic acid Massachusetts RTK: Trichloroacetic acid Massachusetts spill list: Trichloroacetic acid New Jersey: Trichloroacetic acid TSCA 8(b) inventory: Trichloroacetic acid; Water


Other Classifications:
WHMIS (Canada): CLASS E: Corrosive liquid.

DSCL (EEC):

HMIS (U.S.A.):

  Health Hazard: 3
  Fire Hazard: 0
  Reactivity: 0
Personal Protection:

National Fire Protection Association (U.S.A.):

Health: 3
Flammability: 0
Reactivity: 0
Specific hazard:

Protective Equipment:
Gloves. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Face shield.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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