FLINN SCIENTIFIC, INC.
Material Safety Data Sheet (MSDS)

MSDS #: 828.00
Revision Date: September 27, 2010

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trichloroacetic Acid

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261
CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Trichloroacetic Acid
Synonym: TCA
CAS#: 76-03-9

SECTION 3 — HAZARDS IDENTIFICATION

White crystals; vinegar-like odor.
Moderately toxic by ingestion and inhalation. Corrosive to body tissues. Avoid all body contact.
Combustible solid.

FLINN AT-A-GLANCE
Health-2
Flammability-1
Reactivity-1
Exposure-2
Storage-1
0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician, seek medical attention for further treatment, observation and support after first aid.
Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.
Eye: Immediately flush with fresh water for 15 minutes.
External: Wash continuously with fresh water for 15 minutes.
Internal: Give 1 to 2 cups of water or milk, followed by a gastric antacid, such as milk of magnesia. Do not induce vomiting. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.
When heated to decomposition, emits toxic fumes of chloroform, hydrogen chloride, phosgene, Cl, & CO.
Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE
None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides and peracids.
Store in a cool, dry place. Deliquescent, store in a Flinn Chem-Saf bag. Use and dispense in a hood.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).
Exposure guidelines: TWA 7 mg/m^3 (NIOSH)

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White crystals; vinegar-like odor.
Solubility: Water and alcohol.
Formula: CCl3COOH
Formula Weight: 163.40

Specific Gravity: 1.6298
Melting Point: 57-58 C
Boiling Point: 196 C

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizing agents and strong bases.
Shelf Life: Poor, very deliquescent.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Corrosive, G.I. disturbances
Chronic effects: N.A.
Target organs: N.A.

ORL-RAT LD50: 400 mg/kg
EYE-RAT LC50: 3500 ug/5S
SKN-RBT LD50: 210ug/Mild

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please consult with state and local regulations.
Flinn Suggested Disposal Method #24a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Trichloroacetic Acid
Hazard Class: 8, Corrosive
UN Number: UN1839
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-927-2), RCRA code D002.

SECTION 16 — OTHER INFORMATION

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

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