FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

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.

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 Na2O and hydrogen chloride. **Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

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/m3 (NIOSH)

MSDS #: 828.00 Revision Date: March 12, 2001

FLINN AT-A-GLANCE Health-2 Flammability-1 Reactivity-1 Exposure-2

Storage-1

0 is low hazard, 3 is high hazard

NFPA CODE

None established

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Section 9 — Physical and Chemical Properties

White crystals; vinegar-like odor. Solubility: Water and alcohol. Formula: CCI3COOH 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: N.A.

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

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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> flinn@flinnsci.com www.flinnsci.com P.O. Box 219 Batavia IL 60510 (800) 452-1261 Fax (866) 452-1436