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

MSDS #: 834.00

Revision Date: July 24, 2012

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Triphenyl Tetrazolium Chloride

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

Triphenyl tetrazolium chloride

Synonyms: 2,3,5-Triphenyltetrazolium chloride; Red tetrazolium

CAS#: 298-96-4

SECTION 3 — HAZARDS IDENTIFICATION

White to pale-yellow, crystalline powder; darkens on exposure to light. Odor of unsalted butter.

Possible body tissue irritant. Avoid all body tissue contact.

Combustible solid.

FLINN AT-A-GLANCE

Health-0 Flammability-1

Reactivity-1 Exposure-1

Storage-0

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and 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 or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.

NFPA CODE

When heated to decomposition, may emit chlorine.

None established

Fire Fighting Instructions: Use a 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. Ventilate area. Sweep up, place in sealed bag or container and dispose. 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 #9. Store with dyes, indicators, and stains. Store in a cool, dry place. Avoid exposure to light.

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 exhaust ventilation to keep airborne concentrations low.

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White to pale-yellow, crystalline powder; darkens on exposure

to light. Odor of unsalted butter.

Solubility: Water and various organic solvents.

Formula: C₁₉H₁₅ClN₄ Formula weight: 334.80 Melting point: 245 °C (decomposes)

SECTION 10 — STABILITY AND REACTIVITY

Avoid strong oxidizing agents and exposure to light.

Oxidizes aldoses and ketoses.

Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: N.A. Chronic effects: N.A. Target organs: N.A.

ORL-RAT LD₅₀: N.A. IHL-RAT LC₅₀: N.A. 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.

<u>SECTION 13 — DISPOSAL CONSIDERATIONS</u>

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #26a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated

Hazard class: N/A UN number: N/A N/A = Not applicable

SECTION 15 - REGULATORY INFORMATION

TSCA-listed, EINECS-listed (206-071-6).

SECTION 16 — OTHER INFORMATION

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