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

MSDS #: 214.00

Revision Date: December 7, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Carbon Tetrachloride

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

Carbon tetrachloride Synonym: carbon tet CAS#: 56-23-5

SECTION 3 — HAZARDS IDENTIFICATION

Colorless liquid. Strong chlorine odor.

Possible human carcinogen (IARC-2B). Avoid all contact - avoid this substance on school premises. Body tissue irritant. Severely toxic by ingestion, inhalation, and skin absorption. Avoid ingestion, inhalation, and skin absorption.

FLINN AT-A-GLANCE

Health-3 Flammability-0 Reactivity-1

Exposure-3 Storage-2

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: Do NOT induce vomiting. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable liquid.

Releases very toxic gas (phosgene) upon heating. Avoid heating. Avoid any contact with fire.

H-3
F-0
R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area and ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #4. Store with ethers, ketones, halogenated hydrocarbons, and ethylene oxide. 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 a 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: PEL 10 ppm, STEL 2 ppm (OSHA, NIOSH)

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless liquid with a strong odor. Chlorated hydrocarbon.

Formula: CCl₄

Formula weight: 153.82 Percent volatiles = 100% Boiling point: 76.66 °C Melting point: -23 °C Specific gravity: 1.59 Vapor density: 5.3

Vapor pressure: 92 mmHg

ORL-RAT LD₅₀: 2350 mg/kg

SKN-RBT LD₅₀: 5070 mg/kg

IHL-RAT LC₅₀: 8000 ppm/4 hour

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizing agents, alkali metals, powdered metals, and oxidizers.

Avoid this substance on school premises.

Shelf life: Indefinite, if stored in a tight container.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant, stomach pains, vomiting, diarrhea,

nausea, dizziness, and headaches.

Chronic effects: Possible carcinogen, mutagen, and reproductive

hazard.

Target organs: Liver, kidneys, nervous system, and heart.

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 review all federal, state and local regulations that may apply, before proceeding.

Flinn Suggested Disposal Method #27j is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Carbon Tetrachloride

Hazard class: 6.1, Poison UN number: UN1846 N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-262-8), RCRA code U211.

SECTION 16 — OTHER INFORMATION

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