

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 214.00

Revision Date: March 15, 2001

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 odor.

Body tissue irritant. Avoid all contact, avoid this substance on school premises. Reasonably anticipated to be a carcinogen. 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, 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: Induce vomiting. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non flammable liquid.

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

NFPA CODE

H-3

F-0

R-0

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; deposit in 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 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 10 ppm, STEL 2 ppm (OSHA, NIOSH)

Section 9 — Physical and Chemical Properties

Colorless liquid; strong odor. Chlorated hydrocarbon
Formula: CCl₄
Formula Weight: 153.82

Specific Gravity: 1.59
Melting Point: -23 C
Boiling Point: 76.66 C
Percent volatiles = 100%. Vapor pressure: 92 mm of mercury
Vapor Density: (Air = 1) 5.3

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, headaches. Chronic effects: Possible carcinogen, mutagen, reproductive hazard.
Target organs: Liver, kidneys, nervous system, heart.

ORL-RAT LD50: 2350 mg/kg
IHL-RAT LC50: 8000 ppm/4H
SKN-RBT LD50: 5070 mg/kg

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 #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

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 Chemical Packaging Prevents Accidents

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