

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 213.00

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SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Carbon Disulfide

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 disulfide

Synonym: carbon bisulfide

CAS#: 75-15-0

SECTION 3 — HAZARDS IDENTIFICATION

Clear, colorless liquid that is nearly odorless when pure.

Moderately toxic by ingestion, inhalation, and skin absorption. Avoid all body tissue contact.

Class 1B flammable liquid. Avoid any source of ignition.

Dangerous fire and explosion risk.

FLINN AT-A-GLANCE

Health-2

Flammability-3

Reactivity-2

Exposure-2

Storage-3

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: Immediately flush with fresh water for at least 15 minutes.

External: Wash continuously with fresh water for at least 15 minutes.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, and 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

Class 1B flammable liquid.

Highly flammable liquid. Avoid all sources of ignition. A light bulb can ignite the vapor. A severe fire hazard.

Flash Point: -22 °F Upper: 50% Lower: 1.3% Autoignition Temperature: 275 °F

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

NFPA CODE

H-3

F-4

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert 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: Inorganic #5. Store with sulfides, phosphides, carbides, and nitrides.

Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor can.

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: TWA 20 ppm (OSHA).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless liquid that is nearly odorless when pure.

Solubility: Soluble in alcohol and ether. Slightly soluble in alcohol.

Insoluble in water.

Formula: CS₂

Formula Weight: 76.13

Specific Gravity: 1.26

Boiling Point: 46.3 °C

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with oxidizers, azides, and amines. Avoid spark, flame, or any source of ignition or heat - highly flammable.

Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic and irritant.

Chronic effects: Possible mutagen/teratogen, reproductive hazard, and neurological hazard.

Target organs: Eyes and the female and male reproductive system.

ORL-RAT LD₅₀: 3188 mg/kg

IHL-RAT LC₅₀: 25 g/m³/2H

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 #9 is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Carbon disulfide

Hazard Class: 3, Flammable liquid, poison

UN Number: UN1131

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-843-6), RCRA code P022.

SECTION 16 — OTHER INFORMATION

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