

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 232.00

Revision Date: March 15, 2001

Section 1 — Chemical Product and Company Identification

Chloroform

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

Chloroform

Synonym: trichloromethane

CAS#: 67-66-3

Section 3 — Hazards Identification

Clear colorless liquid, with a pleasant odor.

Exposure may cause headache and dizziness. Moderately toxic by ingestion. Irritating to eyes and body tissues. Reasonably anticipated to be a carcinogen.

FLINN AT-A-GLANCE

Health-2
Flammability-0
Reactivity-1
Exposure-2
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, non-combustible liquid.

Concentrated vapors may be ignited by a source of heat.

When heated to decomposition, emits toxic fumes of Cl.

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

NFPA CODE

H-2
F-0
R-0

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and ventilate area. Contain spill with sand and 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. Store in Flinn Saf-Stor Can. Store in a cool dry place. Protect from light. 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 (ACGIH, NIOSH)

Section 9 — Physical and Chemical Properties

Clear colorless liquid, with a pleasant odor.
Solubility: Slightly soluble in water. 0.8 g/100g. 100%
Volatile
Formula: CHCl₃
Formula Weight: 119.38

Specific Gravity: 1.5
Boiling Point: 60 - 61.5 C

Section 10 — Stability and Reactivity

Any source of ignition. Avoid strong bases and aluminum. Strong alkalis, oxidizing materials. Air sensitive. Light sensitive.
Shelf life: Good, if stored properly.

Section 11 — Toxicological Information

Acute effects: Toxic, irritant, nausea, dizziness and headache.
Chronic effects: Possible carcinogen, mutagen
Target organs: Heart, liver, kidneys, nerves

ORL-RAT LD50: 908 mg/kg
IHL-RAT LC50: 47702 mg/m³/414
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 #27j is one option.

Section 14 — Transport Information

Shipping Name: Chloroform
Hazard Class: 6.1, Keep away from food
UN Number: UN1888

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (200-663-8), RCRA code U044.

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.

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Flinn Chemical Packaging Prevents Accidents

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