

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 232.00

Revision Date: December 7, 2011

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. Pleasant odor.

Possible human carcinogen (IARC-2B).

Exposure may cause headache and dizziness. Moderately toxic by ingestion. Irritating to eyes and body tissues.

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

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible liquid.

Concentrated vapors may be ignited by a source of heat.

When heated to decomposition, emits toxic fumes of Cl.

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-2

F-0

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 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. 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: Ceiling 50 ppm, STEL 2 ppm (OSHA, 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: CHCl_3
Formula weight: 119.38

Boiling point: 60 - 61.5 °C
Specific gravity: 1.5

SECTION 10 — STABILITY AND REACTIVITY

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

SECTION 11 — TOXICOLOGICAL INFORMATION

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

ORL-RAT LD_{50} : 695 mg/kg
IHL-RAT LC_{50} : 47702 mg/m³/414
SKN-RBT LD_{50} : 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 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: 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

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