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

MSDS #: 232.00

Revision Date: May 20, 2008

#### 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. Possible 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.	NFPA CODE
Concentrated vapors may be ignited by a source of heat.	H-2
When heated to decomposition, emits toxic fumes of Cl.	F-0
Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE	R-0
and SCBA with full facepiece operated in positive pressure mode.	

#### **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)

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#### **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Clear colorless liquid, with a pleasant odor.

Specific Gravity: 1.5
Solubility: Slightly soluble in water. 0.8 g/100g. 100%

Boiling Point: 60 - 61.5 C

Volatile

Formula: CHCl3 Formula Weight: 119.38

#### **SECTION 10 — STABILITY AND REACTIVITY**

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

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#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant, nausea, dizziness and headache.

Chronic effects: Possible carcinogen, mutagen

ORL-RAT LD50: 908 mg/kg

IHL-RAT LC50: 47702 mg/m3/414

Target organs: Heart, liver, kidneys, nerves 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**

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# Consult your copy of the Flinn Chemical Catalog/Reference Manual for additional information about laboratory chemicals