

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 419.00

Revision Date: July 13, 2010

---

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

---

#### Isopentyl Alcohol

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

---

Isopentyl alcohol

Synonyms: 3-methyl-1-butanol

CAS#: 123-51-3

---

### SECTION 3 — HAZARDS IDENTIFICATION

---

Clear, colorless liquid with a strong, disagreeable, odor like alcohol.  
Irritant to body tissues. Slightly toxic by ingestion, inhalation, and skin absorption.  
Avoid ingestion, inhalation, and skin absorption.  
Class II combustible liquid.

#### FLINN AT-A-GLANCE

Health-1  
Flammability-2  
Reactivity-1  
Exposure-1  
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: Give large quantities of water. Call a physician or poison control at once.

---

### SECTION 5 — FIRE FIGHTING MEASURES

---

Class II combustible liquid.  
Flash Point: 114 °F Upper: 9% Lower: 1.2% Autoignition Temperature: 644 °F  
When heated to decomposition, emits acrid smoke and fumes.  
**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-1  
F-2  
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: Organic #2. Store with alcohols, glycols, amines, and amides.  
Store in a cool, dry place. 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 100 ppm, STEL 125 ppm (OSHA, ACGIH)

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Clear, colorless liquid with a strong, disagreeable odor like alcohol. Specific Gravity: 0.813  
Solubility: Slightly soluble in water. Miscible with alcohol and ether. Melting Point: -117 °C  
Formula: (CH<sub>3</sub>)<sub>2</sub>CHCH<sub>2</sub>CH<sub>2</sub>OH Boiling Point: 130 °C  
Formula Weight: 88.17

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers, acid chlorides, and anhydrides.  
Shelf life: Poor. May form explosive peroxides with age; do not distill to dryness.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Harmful liquid, irritant. ORL-RAT LD<sub>50</sub>: 1300 mg/kg  
Chronic effects: N.A. IHL-RAT LC<sub>50</sub>: N.A.  
Target organs: Central nervous system. SKN-RBT LD<sub>50</sub>: 3212 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 #18b is one option.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping Name: Amyl Alcohols  
Hazard Class: 3, Flammable liquid  
UN Number: UN1105  
N/A = Not applicable

**SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (204-633-5), RCRA code D001.

**SECTION 16 — OTHER INFORMATION**

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. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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