

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 418.00

Revision Date: July 13, 2010

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Isobutyl 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

Isobutyl alcohol

Synonyms: 2-methyl-1-propanol

CAS#: 78-83-1

SECTION 3 — HAZARDS IDENTIFICATION

Colorless liquid with a distinctive odor like alcohol.

Severe irritant to body tissues. Slightly toxic by ingestion, inhalation, and skin absorption.

Avoid all body contact.

Flammable liquid.

FLINN AT-A-GLANCE

Health-1

Flammability-3

Reactivity-0

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 IC flammable liquid.

Flash Point: 99 °F Upper: 10.6% Lower: 1.7% Autoignition Temperature: 813 °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-3

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.

Use and dispense in a hood. 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.

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, (OSHA)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless liquid with a distinctive odor like alcohol.

Solubility: Soluble in alcohol and slightly in water.

Formula: $(\text{CH}_3)_2\text{CHCH}_2\text{OH}$

Formula Weight: 74.14

Melting Point: -108°C Boiling Point: 108°C

Specific Gravity: 0.806

Flash Point: 37.7°C **SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers, acid chlorides, and acid anhydrides.

Shelf life: Indefinite.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Severe irritant.

Chronic effects: Dermatitis.

Target organs: N.A.

ORL-RAT LD_{50} : 2460 mg/kgIHL-RAT LC_{50} : N.A.SKN-RBT LD_{50} : 3400 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: Isobutyl alcohol

Hazard Class: 3, Flammable liquid

UN Number: UN1212

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (201-148-0), RCRA code U140.

SECTION 16 — OTHER INFORMATION

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