

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 182.00

Revision Date: June 9, 2010

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

sec-Butyl 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

sec-Butyl alcohol

Synonym: 2-butanol

CAS#: 78-92-2

SECTION 3 — HAZARDS IDENTIFICATION

Colorless liquid with a strong rubbing alcohol-like odor.

Irritant to body tissue. Mildly toxic by inhalation. Absorbed through the skin.

Flammable liquid. Dangerous fire risk.

FLINN AT-A-GLANCE

Health-1

Flammability-3

Reactivity-2

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 1C flammable liquid; dangerous fire risk.

This material may develop explosive peroxides. Use only fresh material.

Flash Point: 75 °F Upper: 9.8% (212 °F) Lower: 17% (212 °F) Autoignition Temperature: 689 °F

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.

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 chemical-resistant apron. Use ventilation to keep airborne concentrations and low 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 strong rubbing alcohol-like odor.

Formula: $\text{CH}_3\text{CHOHCH}_2\text{CH}_3$

Formula Weight: 74.14

Specific Gravity: 0.81

Melting Point: -89°C Boiling Point: 99.5°C **SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with acids, acid chlorides, acid anhydrides, oxidizing materials, and halogens. Explosive peroxides have been known to develop in storage.

Shelf life: Poor. Use only fresh material.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant, nausea, dizziness, and headache.

Chronic effects: N.A.

Target organs: Eyes and central nervous system.

ORL-RAT LD_{50} : 6480 mg/kgIHL-RAT LC_{50} : N.A.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 consult with state and local regulations.

On Suggested Disposal Method 18b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping Name: Butanols

Hazard Class: 3, Flammable liquid

UN Number: UN1120

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

EINECS-listed (240-029-8), RCRA D001.

SECTION 16 — OTHER INFORMATION

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