

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 181.00

Revision Date: June 9, 2010

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

n-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

n-Butyl alcohol

Synonym: 1-butanol

CAS#: 71-36-3

SECTION 3 — HAZARDS IDENTIFICATION

Clear colorless liquid with a winelike odor.

Moderately toxic by inhalation or ingestion. Irritant to body tissue. Absorbed through the skin.

Avoid vapors.

Flammable liquid.

FLINN AT-A-GLANCE

Health-2

Flammability-3

Reactivity-1

Exposure-2

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: Induce vomiting. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Class 1C flammable liquid.

Flash Point: 95 °F Upper: 11.2% Lower: 1.4% Autoignition Temperature: 649 °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.

Store in a cool, dry place. 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 100 ppm, (OSHA).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear colorless liquid with a winelike odor.
Solubility: Soluble in water (20%). Miscible with alcohol.
Formula: $\text{CH}_3(\text{CH}_2)_2\text{CH}_2\text{OH}$
Formula Weight: 74.14

Specific Gravity: 0.81
Melting Point: -90°C
Boiling Point: 117.7

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with aluminum, chromium trioxide, and oxidizing materials.
When heated to decomposition, it emits acrid smoke and fumes. Substance may develop explosive hydroperoxides.
Shelf life: Fair, substance may oxidize.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Severe irritant, gastrointestinal disturbances,
Chronic effects: N.A.
Target organs: Central nervous system, ears, liver, kidneys, and blood.

ORL-RAT LD_{50} : 790 mg/kg
IHL-RAT LC_{50} : 8000 ppm/4H
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: Butanols
Hazard Class: 3, Flammable Liquid
UN Number: UN1120
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-751-6), RCRA code U031.

SECTION 16 — OTHER INFORMATION

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