



SDS #: 181

Revision Date: July 14, 2015

## n-Butyl Alcohol Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### n-Butyl Alcohol

Signal Word  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-9543

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 3). Flammable liquid and vapor (H226). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).



Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).



Hazard class: Skin corrosion or irritation (Category 2). Causes skin irritation (H315).



Hazard class: Serious eye damage or irritation (Category 1). Causes serious eye damage (H318).

Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335).

Hazard class: Specific target organ toxicity, single exposure; Narcotic effects (Category 3). May cause drowsiness or dizziness (H336). Avoid breathing mist, vapors or spray (P261).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
n-Butyl alcohol	71-36-3	CH <sub>3</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>2</sub> OH	74.12	
Synonyms: 1-Butanol; n-Butanol				

### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338).

**If on skin or hair:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P302+P301+P312).

### SECTION 5 — FIRE FIGHTING MEASURES

Class 1C flammable liquid.

NFPA Code

Flash point: 37 °C Flammable limits: Lower: 1.4% Upper: 11.2% Autoignition Temperature:  
343 °C

H-2

F-3

R-0

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).

---

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

---

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. Keep container tightly closed (P233). Keep cool (P235). Use only in a hood or well-ventilated area (P271).

---

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

---

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

Exposure guidelines: PEL 100 ppm (OSHA) TLV 20 ppm (ACGIH)

---

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

---

Clear colorless liquid. Wine-like odor.	Boiling point: 117.7 °C
Odor threshold: 0.83 ppm	Melting point: -89 °C
Soluble: Water (20%). Miscible with alcohol and ether.	Refractive index: 1.3988
Evaporation rate: 0.46	Specific gravity: 0.81

---

## SECTION 10 — STABILITY AND REACTIVITY

---

Avoid contact with aluminum, chromium trioxide, and oxidizing materials.

Shelf life: Fair, substance may oxidize. See Section 7 for further information.

---

## SECTION 11 — TOXICOLOGICAL INFORMATION

---

Acute effects: Absorbed through skin. Eye, skin, respiratory tract irritation. Dizziness. CNS depression.	ORL-RAT LD <sub>50</sub> : 790 mg/kg
	IHL-RAT LC <sub>50</sub> : 8000 ppm/4H
	SKN-RBT LD <sub>50</sub> : 3400 mg/kg

Chronic effects: N.A.

Target organs: Eyes, skin, respiratory system, central nervous system.

---

## SECTION 12 — ECOLOGICAL INFORMATION

---

Data not yet available.

---

## SECTION 13 — DISPOSAL CONSIDERATIONS

---

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #18b is one option.

---

## SECTION 14 — TRANSPORT INFORMATION

---

Shipping name: Butanols. Hazard class: 3, Flammable liquid. UN number: UN1120.

---

## SECTION 15 — REGULATORY INFORMATION

---

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

---

## SECTION 16 — OTHER INFORMATION

---

This Safety Data Sheet (SDS) 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).

N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

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

**Revision Date:** July 14, 2015

---

