# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

**SDS #:** 181.00

Revision Date: March 21, 2014

# 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

Signal Word D

DANGER

# 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<br>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       |
| When heated to decomposition, may emit toxic fumes.                                            | F-3       |
| In case of fire: Use a tri-class dry chemical fire extinguisher (P370+P378).                   | R-0       |

#### **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.

Butyl Alcohol SDS #: 181.00

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#### **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<sup>TM</sup> 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.

Soluble: Water (20%). Miscible with alcohol and ether.

Boiling point: 117.7 °C

Melting point: -89 °C

Melting point: -89 °C Refractive index: 1.3988 Specific gravity: 0.81

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

SECTION 10 — STABILITY AND REACTIVITY

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

Substance may develop explosive hydroperoxides.

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.

Chronic effects: N.A.

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

system.

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 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.

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.

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