

## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

sec-Butyl Alcohol

Signal Word  
**WARNING**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-9544

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: Serious eye damage or irritation (Category 2A). Causes serious eye irritation (H319).



Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing mist, vapors or spray (P261).

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
sec-Butyl alcohol	78-92-2	CH <sub>3</sub> CHOHCH <sub>2</sub> CH <sub>3</sub>	74.12	
Synonyms: 2-butanol; sec-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 eye irritation persists eyes:** Get medical advice or attention (P337+P313).

**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.**

### SECTION 5 — FIRE FIGHTING MEASURES

Class 1C flammable liquid; dangerous fire risk.

NFPA Code

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

H-2

Flash point: 24 °C Flammable limits: Lower: 1.7% Upper: 9.8% Autoignition Temperature: 405

F-3

°C

R-0

When heated to decomposition, may emit toxic fumes.

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

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## SECTION 6 — ACCIDENTAL RELEASE MEASURES

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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.

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## SECTION 7 — HANDLING AND STORAGE

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Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides. Use only fresh material. Known to develop explosive peroxides.

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).

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## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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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 150 ppm (OSHA) TLV 100 ppm (ACGIH) IDLH 2000 ppm

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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Colorless liquid. Strong rubbing alcohol-like odor.	Boiling point: 99.5 °C
Soluble: Slightly in water. Miscible with alcohol and ether.	Melting point: -114 °C
	Refractive index: 1.3978
	Specific gravity: 0.81

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## SECTION 10 — STABILITY AND REACTIVITY

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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. Known to develop explosive peroxides. See Section 7 for further information.

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## SECTION 11 — TOXICOLOGICAL INFORMATION

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Acute effects: Eye, skin, and respiratory tract irritation.	ORL-RAT LD <sub>50</sub> : 6480 mg/kg
Nausea, dizziness, and headache.	IHL-RAT LC <sub>50</sub> : N.A.
Chronic effects: N.A.	SKN-RAT LD <sub>50</sub> : greater than 2 g/kg
Target organs: Eyes, skin, respiratory system, and central nervous system.	

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## SECTION 12 — ECOLOGICAL INFORMATION

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Data not yet available.

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## SECTION 13 — DISPOSAL CONSIDERATIONS

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

Flinn Suggested Disposal Method #18b is one option.

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## SECTION 14 — TRANSPORT INFORMATION

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

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## SECTION 15 — REGULATORY INFORMATION

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

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## SECTION 16 — OTHER INFORMATION

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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.**

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