

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 183.00

Revision Date: June 9, 2010

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### tert-Butyl Alcohol

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

CHEMTREC Emergency Phone Number: (800) 424-9300

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### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

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tert-Butyl alcohol

Synonym: 2-methyl-2-propanol

CAS#: 75-65-0

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### SECTION 3 — HAZARDS IDENTIFICATION

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Colorless, mobile liquid or solid with a camphorlike odor.  
Irritant to eyes and body tissue. Moderately toxic. Absorbed through the skin.  
Flammable liquid. Dangerous fire risk.

#### FLINN AT-A-GLANCE

Health-2

Flammability-3

Reactivity-1

Exposure-2

Storage-3

0 is low hazard, 3 is high hazard

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### SECTION 4 — FIRST AID MEASURES

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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.

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### SECTION 5 — FIRE FIGHTING MEASURES

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Class 1B flammable liquid; dangerous fire risk.

Flash Point: 40 °F Upper: 8% Lower: 2.4% Autoignition Temperature: 896 °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

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### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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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.

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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.

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.

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### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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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**

Colorless, mobile liquid with a camphorlike odor.

Formula:  $(\text{CH}_3)_3\text{COH}$

Formula Weight: 74.14

Boiling Point: 83 °C

Melting Point: 25 °C

Specific Gravity: 0.78

Vapor Density: 2.5 (Air=1)

Vapor Pressure: 31 mm @ 20 °C

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with acids, acid chlorides, acid anhydrides, oxidizers, and heat.

Shelf life: Fair.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Nausea, dizziness, and headache.

Chronic effects: Reproductive hazard.

Target organs: Central nervous system.

ORL-RAT LD<sub>50</sub>: 3500 mg/kg

IHL-RAT LC<sub>50</sub>: N.A.

SKN-RBT LD<sub>50</sub>: 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.

Flinn Suggested Disposal Method 18b is one option.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping Name: Butanols

Hazard Class: 3, Flammable liquid

UN Number: UN 1120

N/A = Not applicable

**SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (200-889-7), RCRA code 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.**