1. PRODUCT DESCRIPTION
Product Name: Tert-Butyl Alcohol
Product Code(s): 84-9850
Size: 500ml, 4L, 20L
Chemical Name: 2-Methyl-2-Propanol
CAS Number: 75-65-0
Formula: \((\text{CH}_3\text{)3C}0\text{H}\)
Synonyms: Trimethyl carbinol, T-Butyl alcohol, T-Butanol
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS
Principal Hazardous Components: Tert-Butyl Alcohol(CAS# 75-65-0) 90-100%
TLV and PEL units: ACGIH-TLV 100ppm (TWA)
OSHA-PEL 100ppm (TWA)

3. HAZARD IDENTIFICATION
Emergency Overview: Avoid breathing vapors.
Potential Health Effects:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES
Emergency and First Aid Procedures:
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion - If swallowed, if conscious, give plenty of water. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES
Flash Point (Method Used): 11C (cc)
NFPA Rating: Health: 1
Fire: 3
Reactivity: 0
Extinguisher Media:
Use dry chemical, CO2 or appropriate foam.
Flammable Limits in Air % by Volume: 8% upper 2.35% lower
Autoignition Temperature: 477C
Special Firefighting Procedures:
Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Vapors may flow along surfaces to
distant ignition sources and flash back.

6. SPILL OR LEAK PROCEDURES
Steps to be Taken in Case Material is Released or Spilled:
Ventilate area of spill. Eliminate all sources of ignition.
Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

7. SPECIAL PRECAUTIONS
Precautions to be Taken in Handling or Storing: Store in a tightly closed container in a dry, cool, well-ventilated area suitable for flammable liquids.
Other Precautions: Bond and ground containers when transferring liquid.

8. SPECIAL PROTECTION INFORMATION
Respiratory Protection (Specify Type): A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.
Ventilation:
Local Exhaust: Yes
Mechanical (General): Yes
Special: No
Other: No
Protective Gloves: Rubber, neoprene, PVC, or equivalent.
Eye Protection: Splash proof chemical safety goggles should be worn at all times.
Other Protective Clothing or Equipment: Lab apron, eye wash, and safety shower.

9. PHYSICAL DATA
Molecular Weight: 74.14
Melting Point: 25°C
Boiling Point: 83°C
Vapor Pressure: 31 at 20°C
Vapor Density (Air=1): 2.6
Specific Gravity (H2O=1): 0.78
Percent Volatile by Volume: 100%
Evaporation Rate (H2O=1): No data available
Solubility in Water: Complete
Appearance and Odor: Colorless crystals or liquid with a camphor-like odor.

10. REACTIVITY DATA
Stability: Stable
Conditions to Avoid: Heat, flame, or other sources of ignition.
Incompatibility (Materials to Avoid): Strong oxidizing agents
Hazardous Decomposition Products: COx
Hazardous Polymerization: Will not occur

11. TOXICITY DATA
Toxicity Data: Not listed as causing cancer by NTP, IARC, or OSHA.
Effects of Overexposure:
Acute: See section 3
Chronic: orl-rat LD50: 3500 mg/kg
Conditions Aggravated by Overexposure: None identified
Target Organs: Eyes, skin
Primary Route(s) of Entry: Inhalation, ingestion, eye and skin contact

12. ECOLOGICAL DATA
EPA Waste Numbers: D001, Ignitable waste

13. DISPOSAL INFORMATION
Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION
Description: Butanols, 3, UN1120, II

15. REGULATORY INFORMATION
EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

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| Tert-Butyl Alcohol          | No Yes No No |
|                            |              |

16. ADDITIONAL INFORMATION
The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary
ACGIH........American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Abstracts Service Number
CERCLA......Comprehensive Environmental Response, Compensation, and Liability Act
DOT...........U.S. Department of Transportation
IARC........International Agency of Research on Cancer
mppcf......million particles per cubic foot
N/A.........Not Available
NTP...........National Toxicology Program
OSHA.........Occupational Safety and Health Administration
PEL.........Permissible Exposure Limit
ppm.........parts per million
RCRA........Resource Conservation and Recovery Act
SARA........Superfund Amendments and Reauthorization Act
TLV.........Threshold Limit Value
TSCA........Toxic Substances Control Act