



## Section 1 - Chemical Product and Company Identification

<b>Product Name</b>	tert-Butyl Alcohol extrapure, 99%
<b>Product Code</b>	21835
<b>CAS No</b>	75-65-0
<b>Use for</b>	Laboratory Chemicals.
<b>Company Name</b>	Sisco Research Laboratories Pvt. Ltd.
<b>Address</b>	608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road, Andheri (E), Mumbai - 400 099, India

## Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	E INECS#
75-65-0	tert-Butanol	<=100	200-889-7

## Section 3 - Hazards Identification

Highly flammable. Harmful by inhalation.

### Potential Health Effects

**Eye:** Causes eye irritation.

**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.

**Ingestion:** May cause irritation of the digestive tract. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

**Inhalation:** Harmful if inhaled. May cause drowsiness, unconsciousness, and central nervous system depression. May cause irritation of the mucous membranes.

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable liquid and vapor.

**Extinguishing Media:** Use water spray to cool fire-exposed containers. Water may be ineffective. Use water fog, dry chemical, carbon dioxide, or regular foam.



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## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Do not let this chemical enter the environment.

## Section 7 - Handling and Storage

**Handling:** Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use only in a chemical fume hood.

**Storage:** Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

## Section 8 - Exposure Control / Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

**Exposure Limits :**

CAS# 75-65-0:

## Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Liquid
<b>Color:</b>	after melting, clear colorless
<b>Odor:</b>	camphor
<b>Boiling Point:</b>	83 deg C @760mmHg ( 181.40°F)
<b>Freezing/Melting Point:</b>	25 - 25.5 deg C
<b>Flash Point:</b>	11 deg C ( 51.80 deg F)
<b>Molecular Formula:</b>	C4H10O
<b>Molecular Weight:</b>	74.12

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, excess heat.

**Incompatibilities with Other Materials :**Excess heat, acids, acid chlorides, acid anhydrides.

**Hazardous Decomposition Products :** Carbon monoxide, carbon dioxide.

**Hazardous Polymerization :** Will not occur.



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## Section 11 - Toxicological Information

### RTECS#:

CAS# 75-65-0: EO1925000

### LD50/LC50:

RTECS:

CAS# 75-65-0: Dermal, guinea pig: LD50 = >10 mL/kg;

Draize test, rabbit, eye: 100 uL/24H Severe;

Draize test, rabbit, skin: 500 uL/24H Mild;

Inhalation, rat: LC50 = >10000 ppm/4H;

Oral, rabbit: LD50 = 3559 mg/kg;

Oral, rabbit: LD50 = 3600 mg/kg;

Oral, rat: LD50 = 2743 mg/kg;

Oral, rat: LD50 = 3500 mg/kg;

Skin, rabbit: LD50 = >2 gm/kg;

**Carcinogenicity:** tert-Butanol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

### Ecotoxicity:

Fish: Pimephals prome: 6410 mg/L; 96H; LC50

Fish: Zebrafish: >856 mg/L; 96H; LC50

Fish: Leuciscus idus: >1000 mg/L; 48H; LC50

Daphnia: Daphnia: 5504 mg/L; 48H; EC50

Daphnia: Daphnia: 2915 mg/L; 48H; EC0

Daphnia: Daphnia: 8000 mg/L; 48H; EC100

Daphnia: Daphnia: 180 mg/L; 48H; EC0

Daphnia: Daphnia: 933 mg/L; 48H; EC50

Daphnia: Daphnia: >900 mg/L; 48H; EC100

### Other:

Avoid entering into waters or underground water.

Log Pow = 0.30BCF = 1.09BOD5/COD = 0.008 - 0.73

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information



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<b>Product Code</b>	21835		
<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>	
<b>Shipping Name:</b>	BUTANOLS	BUTANOLS	BUTANOLS
<b>Hazard Class:</b>	3	3	3
<b>UN Number:</b>	1120	1120	1120
<b>Packing Group:</b>	II	II	II

## Section 15 - Regulatory Information

### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F

Risk Phrases:

R 11 Highly flammable.

R 20 Harmful by inhalation.

Safety Phrases:

S 9 Keep container in a well-ventilated place.

S 16 Keep away from sources of ignition - No smoking.

WGK (Water Danger/Protection)

CAS# 75-65-0: Not available

Canada

CAS# 75-65-0 is listed on Canada's DSL List

### US Federal

TSCA

CAS# 75-65-0 is listed on the TSCA Inventory.

## Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.