

**SAFETY DATA SHEET****TERTIARY BUTANOL (TBA)**

CAS No.: 75-65-0

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Tertiary Butanol (TBA)
CAS Number	75-65-0
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Danger
HAZARD CLASSIFICATION • Flammable Liquid (Category 2) • Eye Irritation (Category 2) • Acute Toxicity - Inhalation (Category 4) • STOT Single Exposure (Category 3 - respiratory irritation and narcotic effects)	
HAZARD STATEMENTS • H225 - Highly flammable liquid and vapour • H319 - Causes serious eye irritation • H332 - Harmful if inhaled • H335 - May cause respiratory irritation • H336 - May cause drowsiness or dizziness	
PRECAUTIONARY STATEMENTS • P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking • P233 - Keep container tightly closed • P261 - Avoid breathing vapours • P271 - Use only outdoors or in a well-ventilated area • P280 - Wear protective gloves/eye protection/face protection • P304+P340 - If inhaled: remove to fresh air and keep at rest • P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes; remove contact lenses if present • P403+P233 - Store in a well-ventilated place; keep container tightly closed	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Tertiary Butanol (TBA)
CAS Number	75-65-0
Physical State	Liquid or solid (melting point ~25-26C, so it may solidify near or below room temperature)
Appearance / Odour	Colorless liquid or white crystalline solid with a camphor-like odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse immediately with plenty of water for at least 15 minutes, removing contact lenses if present, and seek medical attention if irritation persists.
Skin Contact	Wash affected area with soap and water; remove contaminated clothing.
Inhalation	Remove to fresh air immediately; if breathing difficulty, dizziness, or drowsiness occurs, seek medical attention.
Ingestion	Rinse mouth, do not induce vomiting, and seek medical attention if a significant amount was swallowed.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical, or carbon dioxide; use water spray/fog to cool fire-exposed containers.
Unsuitable Extinguishing Media	Avoid a solid/straight water stream, which may spread the fire.
Special Hazards	Highly flammable with a low flash point; vapour may form explosive mixtures with air and is denser than air; static discharge can be an ignition source; closed containers may rupture when heated.

6. ACCIDENTAL RELEASE MEASURES

Measures	Eliminate ignition sources, ventilate the area, use explosion-proof/non-sparking equipment, contain the spill with inert absorbent, and prevent entry into drains or waterways.
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7. HANDLING AND STORAGE

Handling Precautions	Use only with explosion-proof ventilation and equipment, ground/bond containers during transfer, avoid static discharge, keep away from heat, sparks, and open flame, and gently warm the material if it has solidified (mp ~25C) away from ignition sources before transfer.
Storage Conditions	Store in a flammable liquids store/cabinet in a cool area away from oxidizers and ignition sources, in tightly closed containers; note the material may solidify below approximately 25C, so trace heating or insulation may be needed for handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	ACGIH TLV is 100 ppm TWA / 150 ppm STEL; OSHA/NIOSH reference values are similar (approximately 100 ppm TWA); wear chemical splash goggles, nitrile gloves, antistatic protective clothing, and a NIOSH-approved organic vapour respirator if ventilation is inadequate.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid or solid (melting point ~25-26C, so it may solidify near or below room temperature)
Appearance / Odour	Colorless liquid or white crystalline solid with a camphor-like odor.
Boiling Point	82-83
Melting Point	25-26
Flash Point	11 (closed cup)
Density / Specific Gravity	0.775-0.789 g/cm3 (as liquid)
Water Solubility	Miscible with water in all proportions
pH Value	Not applicable

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and use; highly flammable.
Incompatible Materials	Strong oxidizing agents and strong acids.
Hazardous Decomposition	Carbon monoxide and carbon dioxide on combustion.

11. TOXICOLOGICAL INFORMATION

Summary	Low-to-moderate acute toxicity (rat oral LD50 approximately 2,000-3,500 mg/kg); vapours irritate the eyes and respiratory tract and act as a CNS depressant causing headache, dizziness, and drowsiness at elevated concentrations; chronic high-dose rodent studies have shown kidney effects considered specific to male rats (alpha-2u-globulin nephropathy) of limited relevance to humans; not classified as a human carcinogen, mutagen, or reproductive toxicant under EU harmonized classification.
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12. ECOLOGICAL INFORMATION

Summary	Fully miscible with water and expected to biodegrade readily; low bioaccumulation potential (log Kow approximately 0.35); not classified as hazardous to the aquatic environment under harmonized classification.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as flammable chemical waste through a licensed waste contractor per local regulations; do not discharge to sewers or waterways.
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14. TRANSPORT INFORMATION

UN Number	UN1120
Transport Hazard Class	3
Packing Group	II

15. REGULATORY INFORMATION

Notes	Listed on the TSCA (US) and REACH (EU) inventories with an EU CLP harmonized classification under Annex VI (Index No. 603-004-00-2); used as a gasoline oxygenate/octane booster and industrial solvent/chemical intermediate; note its tendency to freeze/solidify near or below ambient temperature (mp ~25C), which affects handling, heating, and transport, especially in cooler climates.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

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