

SAFETY DATA SHEET

METHYL TERT-BUTYL ETHER (MTBE)

CAS No.: 1634-04-4

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	Methyl Tert-Butyl Ether (MTBE)
CAS Number	1634-04-4
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 - Skin irritation - Category 2 - Serious eye irritation - Category 2A	
HAZARD STATEMENTS - H225 - Highly flammable liquid and vapour - H315 - Causes skin irritation - H319 - Causes serious eye irritation	
PRECAUTIONARY STATEMENTS - P210 - Keep away from heat, sparks, open flames and hot surfaces; no smoking - P233 - Keep container tightly closed - P240 - Ground/bond container and receiving equipment - P241 - Use explosion-proof electrical/ventilating/lighting equipment - P264 - Wash exposed skin thoroughly after handling - P280 - Wear protective gloves/eye protection/face protection - P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing - P370+P378 - In case of fire, use extinguishing media suitable for the surrounding fire - P403+P235 - Store in a well-ventilated place and keep cool	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Methyl Tert-Butyl Ether (MTBE)
CAS Number	1634-04-4
Physical State	Liquid
Appearance / Odour	Colorless liquid with a characteristic terpene/ether-like odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing and seek medical attention if irritation persists.
Skin Contact	Wash off with plenty of water and soap; seek medical attention if irritation persists.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing; seek medical attention if symptoms of dizziness or irritation persist.
Ingestion	Rinse mouth; do NOT induce vomiting due to aspiration risk; seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, carbon dioxide, alcohol-resistant foam; water spray to cool exposed containers.
Unsuitable Extinguishing Media	Avoid a straight/high-pressure water stream, which can spread the fire.
Special Hazards	Highly flammable, very low-flash-point liquid producing vapor that readily forms explosive mixtures with air and may travel along the ground to an ignition source; combustion produces carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Measures	Eliminate all ignition sources, ventilate the area, contain the spill with inert absorbent, prevent entry into drains/waterways (persistent groundwater contaminant), and collect for disposal using non-sparking tools.
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7. HANDLING AND STORAGE

Handling Precautions	Use only with adequate ventilation and explosion-proof equipment, keep away from heat/sparks/open flame, use grounded/bonded equipment, and avoid inhalation and skin/eye contact.
Storage Conditions	Store in a cool, well-ventilated, flammables-rated area away from heat, light and oxidizers, in tightly closed containers; protect underground storage/piping against leaks given its groundwater mobility.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	OSHA/ACGIH guidance commonly cites ~50 ppm TWA; use chemical-resistant gloves (e.g., nitrile, Viton), chemical splash goggles, and a NIOSH-approved organic vapor respirator with explosion-proof local exhaust ventilation where vapor exceeds exposure limits.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless liquid with a characteristic terpene/ether-like odor.
Boiling Point	~55 C
Melting Point	~-109 C
Flash Point	~-28 to -30 C (closed cup)
Density / Specific Gravity	~0.74 g/cm3 at 20 C
Water Solubility	~40-50 g/L at 20 C (moderately soluble)
pH Value	Not applicable (non-aqueous, essentially neutral organic liquid)

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Summary	Causes skin and eye irritation; vapor may cause headache, dizziness and mild CNS effects at elevated concentrations; historically evaluated for carcinogenicity with inconclusive/limited evidence in humans (some animal tumor findings at high dose); not classified as a mutagen or reproductive toxicant based on current data; primary environmental concern is taste/odor contamination of groundwater at very low concentrations rather than acute human toxicity.
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12. ECOLOGICAL INFORMATION

Summary	Highly mobile and persistent in groundwater due to high water solubility and resistance to biodegradation, making it a well-known drinking-water contaminant of concern (notably from historical fuel additive use) even though acute aquatic toxicity is comparatively low; should be strictly prevented from entering soil or waterways.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as hazardous waste through a licensed waste management/incineration facility in accordance with local regulations; do not discharge to sewers, soil or waterways given groundwater contamination risk.
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14. TRANSPORT INFORMATION

UN Number	UN2398
Transport Hazard Class	Class 3 (Flammable liquid)
Packing Group	II

15. REGULATORY INFORMATION

Notes	Widely used industrial solvent and formerly a gasoline oxygenate additive (phased out/restricted as a fuel additive in several jurisdictions due to groundwater contamination concerns); classified as highly flammable under GHS, OSHA HCS and EU CLP; regulated for transport under IMDG/ADR/IATA as UN2398, Class 3, Packing Group II.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
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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.

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