

Material Safety Data Sheet (MSDS / SDS)

Ester Alcohol C12 (Texanol) - Coalescing Agent

SECTION 1: Identification

Product Name	Ester Alcohol C12 / Texanol - 2,2,4-Trimethyl-1,3-pentanediol Monoisobutyrate
Synonyms	Ester Alcohol C12, Texanol, TMPD-MIB, 2,2,4-Trimethyl-1,3-pentanediol Monoisobutyrate, Texanol Ester Alcohol
CAS No.	25265-77-4
Recommended Use	Coalescing agent for water-based paints, coatings, adhesives, inks and latex emulsion systems
Manufacturer / Supplier	Ochnology Solution Pvt. Ltd., B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India - 248001
Telephone	+91 9286823642/43
Email	projects@ochnology.com, bd@ochnology.com

SECTION 2: Hazard(s) Identification

GHS Classification: Not classified as hazardous under the Globally Harmonized System (GHS) based on available data. Combustible liquid (flash point $>93^{\circ}\text{C}$, above the GHS Flammable Liquid classification threshold); may cause mild, transient eye irritation on direct contact.

Signal Word: None (not classified) - general good-handling-practice precautions apply

Hazard Statements:

- Not classified as a hazardous substance or mixture under GHS/CLP based on available data
- May cause mild, transient eye irritation on direct contact
- Combustible liquid - can burn if heated above its flash point or exposed to a strong ignition source

Precautionary Statements:

- P210 - Keep away from heat, hot surfaces, sparks, open flames - No smoking

- P264 – Wash hands thoroughly after handling
- P280 – Wear protective gloves/eye protection when handling in bulk
- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing
- P312 – Call a POISON CENTER/doctor if you feel unwell

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Concentration (w/w)
2,2,4-Trimethyl-1,3-pentanediol Monoisobutyrate (Ester Alcohol C12 / Texanol)	25265-77-4	Min. 98%
Minor Isomers / Related Esters	–	< 2% (combined)

SECTION 4: First-Aid Measures

Eye Contact	Rinse with plenty of water for several minutes. Remove contact lenses if present. Seek medical attention if irritation persists.
Skin Contact	Wash with soap and water. Generally non-irritating under normal contact; seek medical attention if irritation develops.
Inhalation	Very low vapour pressure makes inhalation exposure unlikely under normal handling. If discomfort occurs from heated vapour/mist, move to fresh air and seek medical attention if symptoms persist.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. Seek medical attention if a significant quantity is ingested or discomfort occurs.

SECTION 5: Fire-Fighting Measures

- Combustible liquid (flash point $\approx 113-120^{\circ}\text{C}$) – can burn if heated above its flash point or exposed to a strong ignition source

- Suitable extinguishing media: water spray/fog, foam, CO₂, dry chemical – select based on surrounding fire
- Cool fire-exposed containers with water spray
- Combustion may produce carbon monoxide, carbon dioxide and minor aldehyde/oxide by-products – fire-fighters in enclosed spaces should wear SCBA

SECTION 6: Accidental Release Measures

- Contain spill to prevent entry into drains, sewers or waterways
- Absorb with inert absorbent material (sand, vermiculite, earth) and collect in suitable containers for disposal
- Clean spill area promptly – spilled liquid can create a slip hazard on hard floors
- Wear appropriate PPE (gloves, safety glasses) during clean-up

SECTION 7: Handling and Storage

- Keep away from heat, sparks, open flame and other ignition sources – combustible liquid
- Avoid contact with eyes; wash hands after handling
- Use with adequate ventilation, particularly if heated or sprayed as part of a formulation
- Store in a cool, dry, well-ventilated area in tightly closed containers, away from strong oxidising agents
- Keep containers closed when not in use to minimise odour release and moisture ingress

SECTION 8: Exposure Controls / Personal Protection

Occupational Exposure Limits	No specific OEL established for this substance; handle per good industrial hygiene practice
Engineering Controls	General ventilation is normally sufficient given the low vapour pressure; local exhaust recommended if heated or sprayed
Eye/Face Protection	Safety glasses recommended when handling bulk/concentrate
Hand Protection	General-purpose chemical-resistant gloves (nitrile) recommended for prolonged or repeated contact

**Respiratory
Protection**

Not normally required under standard handling conditions due to low volatility

SECTION 9: Physical and Chemical Properties

Property	Unit	Value
Appearance	-	Colourless to pale yellow clear liquid
Odour	-	Mild, characteristic ester odour
Boiling Point	°C	≈ 254
Flash Point (Closed Cup)	°C	≈ 113 - 120
Density @ 20°C	g/cm ³	0.945 - 0.955
Vapour Pressure @ 20°C	mmHg	Very low (≈ 0.01)
Solubility in Water @ 25°C	wt%	< 0.2 (practically insoluble)

SECTION 10: Stability and Reactivity

- Stable under normal conditions of storage, handling and use
- Combustible liquid – avoid heat, open flame and strong ignition sources
- Incompatible materials: strong oxidising agents
- Hazardous decomposition products: none under normal conditions; combustion may produce CO, CO₂ and minor aldehyde/oxide by-products

SECTION 11: Toxicological Information

- Low acute oral and dermal toxicity based on published data
- May cause mild, transient eye irritation on direct contact; not expected to be a skin irritant or sensitiser under normal use

- Very low vapour pressure limits inhalation exposure potential under normal handling conditions
- Not classified as carcinogenic, mutagenic, or toxic to reproduction based on available information

SECTION 12: Ecological Information

- Not classified as hazardous to aquatic organisms under GHS criteria based on available data
- Very low water solubility limits environmental bioavailability
- Considered to have a favourable environmental profile consistent with its widespread use in low-VOC/eco-friendly coating formulations; avoid unnecessary release to waterways as general good practice

SECTION 13: Disposal Considerations

- Dispose of product and contaminated packaging in accordance with local, state and national regulations
- Not expected to require classification as hazardous waste under standard criteria; confirm local requirements before disposal
- Empty containers may retain product residue – handle and dispose of per label and local regulations

SECTION 14: Transport Information

UN Number	Not applicable – not classified as Dangerous Goods
Proper Shipping Name	Not regulated for transport (IMDG / ADR / IATA / RID)
Transport Hazard Class	Not classified
Packing Group	Not applicable
Environmental Hazards	None identified under standard transport classification criteria

SECTION 15: Regulatory Information

- Widely listed on major chemical inventories (TSCA, REACH, ECL, etc.) as an existing/registered substance
- VOC status varies by jurisdiction's definition: not classified as a VOC under the EU Decopaint Directive (2004/42/EC) and by the China State Environmental Protection framework due to its high boiling point, though some other jurisdictions (e.g. certain US EPA mass-based VOC definitions) may still count it – buyers should confirm the applicable VOC accounting method for their destination market and end formulation
- Buyers/importers should confirm current labelling and inventory requirements applicable to their specific jurisdiction and end-use

SECTION 16: Other Information

Revision Date: 16 July 2026

This SDS has been compiled based on general industry data and knowledge for Ester Alcohol C12 (Texanol) products of this type as commercially supplied. It is intended as a general handling and safety guide and does not replace a batch-specific SDS from the manufacturing mill, which should be obtained and reviewed for each shipment where regulatory submission is required.

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