

SAFETY DATA SHEET

TRIETHANOLAMINE (TEA)

CAS No.: 102-71-6

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	Triethanolamine (TEA)
CAS Number	102-71-6
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	Warning
HAZARD CLASSIFICATION Serious eye damage/eye irritation - Category 2	
HAZARD STATEMENTS H319 - Causes serious eye irritation	
PRECAUTIONARY STATEMENTS - P264 - Wash hands thoroughly after handling - P280 - Wear eye protection/face protection - P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes, remove contact lenses if present - P337+P313 - If eye irritation persists, get medical advice/attention	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Triethanolamine (TEA)
CAS Number	102-71-6
Physical State	Liquid
Appearance / Odour	Colorless to pale yellow, viscous liquid (may partially crystallize on cooling) with a mild ammonia-like odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present. If irritation persists, get medical advice.
Skin Contact	Wash with plenty of soap and water. Remove contaminated clothing. Get medical attention if irritation develops.
Inhalation	Remove to fresh air. Get medical attention if discomfort or breathing difficulty occurs.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice if large amounts are ingested.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray/fog, dry chemical, carbon dioxide, alcohol-resistant foam.
Unsuitable Extinguishing Media	High-volume water jet that could spread the material.
Special Hazards	Combustible liquid at elevated temperatures; thermal decomposition may release nitrogen oxide fumes. Not a significant fire hazard under normal ambient conditions due to its high flash point.

6. ACCIDENTAL RELEASE MEASURES

Measures	Contain the spill; absorb with inert material (sand, earth) and collect in suitable containers. Avoid contact with skin and eyes and prevent entry into drains or waterways; wash area with water after cleanup.
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7. HANDLING AND STORAGE

Handling Precautions	Avoid contact with eyes; use with adequate ventilation and good hygiene practices. Keep containers closed when not in use.
Storage Conditions	Store in a cool, dry, well-ventilated area in tightly closed containers away from strong oxidizers and acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	No widely-adopted specific OSHA/ACGIH exposure limit; many suppliers recommend an internal guideline around 5 mg/m3 TWA. Use safety glasses/goggles, chemical-resistant gloves, and good general ventilation.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless to pale yellow, viscous liquid (may partially crystallize on cooling) with a mild ammonia-like odor.
Boiling Point	335.4 (may decompose before reaching boiling point)
Melting Point	21.6 (often supplied/handled as a supercooled liquid below this temperature)
Flash Point	179 (closed cup)
Density / Specific Gravity	1.124 g/cm3 at 20 C
Water Solubility	Miscible in all proportions
pH Value	Approx. 10 (1% aqueous solution)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and use.
Incompatible Materials	Strong oxidizers, strong acids, acid chlorides/anhydrides, and copper/copper alloys.
Hazardous Decomposition	Combustion or thermal decomposition can produce carbon oxides and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Summary	Low acute oral and dermal toxicity; causes serious eye irritation on direct contact but is not classified as skin corrosive or a specific target organ toxicant. Not classified as a carcinogen, mutagen, or reproductive toxicant based on available data.
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12. ECOLOGICAL INFORMATION

Summary	Generally low acute aquatic toxicity and considered readily to inherently biodegradable; not classified as hazardous to the aquatic environment under GHS criteria based on typical data.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of in accordance with local, state, and federal regulations; small residues may be suitable for biological treatment where permitted, otherwise dispose of via a licensed waste contractor.
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14. TRANSPORT INFORMATION

UN Number	Not regulated for transport
Transport Hazard Class	Not applicable
Packing Group	Not applicable

15. REGULATORY INFORMATION

Notes	Widely listed on TSCA, REACH/EINECS, and other global inventories as a high-production-volume chemical used in personal care, metalworking fluids, and cement additives; not subject to DOT/IMDG/IATA dangerous goods classification under normal conditions.
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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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