

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Triethanolamine	Supplier: ASES CHEMICAL WORKS.
CAS No: 102-71-6	Address: Brahm Bagh, Jalori Gate
Synonym: 2,2',2''-nitrilotriethanol; TEA	Jodhpur - 342001 Rajasthan-India
INCI Name : Triethanolamine	Phone: +91-9636889954
Formula : C ₆ H ₁₅ NO ₃	Web: www.ases.in
Product Form: Liquid	Email : ecom@ases.in
Product Use: Cosmetic use.	

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

Label elements : Not a hazardous substance or mixture.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Product Name	CAS No	EC. No.	Weight%	Molecular Weight
Triethanolamine	102-71-6	203-049-8	99%	149,2g/mol
N,N – Diethanolamine	111-42-2	203-868-0	≤0.5%	Not available

4 FIRST AID MEASURES

- Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.
- Inhalation:** If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.
- Skin:** Wash skin with plenty of water for several minutes. Get medical attention if skin irritation develops or persists.
- Ingestion:** If patient is conscious and can swallow, give water, induce vomiting as directed by medical personnel. Do Not Induce Vomiting or give anything by mouth to an unconscious person. Get medical attention if necessary.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: **Ignition temperature:** 324°C (615°F). Flammable limits: Lower: 1%; Upper: 10%. Use appropriate media (dry chemical, foam, or carbon dioxide) for adjacent fire. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Special protective equipment & precautions for firefighters: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

Flash Points: 179°C (354°F) (CC)

Specific hazards arising from the chemical: Container may rupture from gas generation fire situation. Violent stream generation or eruption may occur upon application or direct water stream to hot liquids.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions : Do not let product enter drains.

Methods for containment and cleaning up : Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7 HANDLING & STORAGE

Safe handling: Minimum feasible handling temperatures should be maintained. See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use.

Safe storage: Periods of exposure to high temperatures should be minimized. Water contamination should be avoided. May segregate or freeze below 16°C (60°F). Thaw and mix before sampling or using. Storage temperature: 30-43°C (86-109°F) Keep away from heat and incompatible materials.

MATERIAL SAFETY DATA SHEET

TRIETHANOLAMINE

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures:	Ingredients with workplace control parameters.
Skin and body protection:	Wear appropriate protective gloves to prevent skin exposure.
Eye protection :	Goggles or safety glasses with side shields in manufacturing sites.
Inhalation:	No protective measures necessary. May wear NIOSH approved respiratory protection.
General hygiene considerations:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid	Vapor Pressure:	No data available
Odor:	Ammonia-like	Vapor Density:	No data available
Odor Threshold:	No data available	Evaporation Rate:	No data available
Color:	No data available	Flammability:	No data available
Molecular Weight:	No data available	Upper/lower Explosive Limit:	No data available
pH:	No data available	Flash Point:	179°C (354°F) (CC)
Boiling Point:	336.1°C (637.0°F)	Specific Gravity @ 25°C:	1.120-1.128
Melting Point:	No data available	Solubility in Water:	No data available
Relative Density	No data available	Auto-Ignition Temperature:	No data available
Partition Coefficient:	noctanol/water	Explosive Properties:	No data available
Viscosity:	No data available	Freezing Point:	20.5°C / 68.9°F
Oxidizing Properties:	No data available	Triethanolamine, wt%:	99.0% MIN
Refractive Index:	1.481-1.486	Molecular weight:	149.19g/mol
Water, wt%:	0.2% MAX		

10 STABILITY AND REACTIVITY

Reactivity:	None under normal use conditions
Chemical Stability:	Stable under normal temperature conditions
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	None known.
Incompatible Materials:	Avoid contact with: Nitrites, strong acids, strong oxidizers
Hazardous Decomposition Products:	Carbon Monoxide and Carbon dioxide. Oxides of nitrogen. Ammonia

11 TOXICOLOGICAL INFORMATION

Acute toxicity:	No data available.
Chronic Effects on Humans:	No data available.
Other Toxic Effects on Humans:	No data available.
Special Toxic Effects on Humans:	No data available.

12 ECOLOGICAL INFORMATION

Persistence and Degradability:	Not available.
Ecotoxicity :	Not available
Other Adverse Effects:	Not available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal:	This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures processes, etc. may render the resulting materials hazardous.
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MATERIAL SAFETY DATA SHEET

TRIETHANOLAMINE

14 TRANSPORT INFORMATION

US DOT Shipping Description (Land) : Not regulated

IMO-IMDG Shipping Description (Sea) : Not regulated

IATA Shipping Description (Air) : Not regulated

15 REGULATORY INFORMATION

Chemical Safety Assessment: This product does not contain any chemical components regulated.

Other : Not regulated

16 OTHER INFORMATION

Disclaimer & Caution

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and ASES CHEMICAL WORKS assume no liability resulting from its use.