



MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: TRIETHANOLAMINE

CAS Number: 102-71-6

1. IDENTIFICATION:

Product Code : 90582, 90263, 98042, 91186, 91402, 999020

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:

Hazard classification : Not a hazardous substance or mixture

Labels elements : Not a hazardous substance or mixture

Hazard symbol : Not classified

Signal word : Not classified

Hazard statement : Not a hazardous substance or mixture

Other hazards which do not result in GHS classification : Not a hazardous substance or mixture

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
Triethanolamine	102-71-6	NLT 99.0%	No

4. FIRST AID MEASURES:

General information : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion : Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.

Skin contact : Get medical attention if symptoms persist.

Skin contact : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Eye contact : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed : Toxic if inhaled. Toxic if swallowed. Toxic in contact with skin. Irritating to eyes, respiratory system and skin.



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Indication of immediate
medical attention and
special treatment needed : No data available.

5. FIRE FIGHTING MEASURES:

General information : In case of fire and/or explosion do not breathe fumes

Suitable (and unsuitable) extinguishing media

Suitable extinguishing
media : Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing
media : Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising
from the chemical : May ignite at high temperature.

Special protective equipment and precautions for firefighters

Special firefighting
procedures : Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective
equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions,
protective equipment and
emergency procedures : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for
containment and cleaning
up : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe
handling : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye
Protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist



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or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage,
including any
incompatibilities

: Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Control parameters****Occupational exposure limits**

Chemical identity	Type	Exposure Limit values	Source
TRIETHANOLAMINE	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values (2011)
	ST ESL	50 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	AN ESL	5 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	TWA PEL	5 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)

Appropriate engineering
controls

: No data available

Individual protection measures, such as personal protective equipment

General information	: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection	: Wear safety glasses with side shields (or goggles).
Hand protection	: Chemical resistant gloves.
Other	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.
Hygiene measures	: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.



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9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	: Clear, colourless to pale yellow, hygroscopic viscous liquid
Odor	: Slight ammonia odor
Solubility	: Miscible in water.
Formula	: $N(CH_2CH_2OH)_3$
Molecular Weight	: 149.19 g/mol
Specific Gravity	: 1.13 g/cm ³ at 20°C
pH	: 10.5, 0.1 N Aqueous solution
Boiling Point	: 335 °C
Melting Point	: 20.5 °C
Flash Point	: 179 °C
Vapor Density (Air=1)	: 5.1
Vapor Pressure (mm Hg)	: No data available
Evaporation Rate (BuAc=1)	: No data available

10. STABILITY AND REACTIVITY:

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Material is stable under ambient conditions..
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: Heat, sparks, flames. Sunlight.
Incompatible materials	: nonferrous metals, Light metals
Hazardous decomposition products	: In the event of fire: see section 5

11. [TOXICOLOGICAL INFORMATION:**Information on likely routes of exposure**

Ingestion	: Irritating. May cause nausea, stomach pain and vomiting.
Inhalation	: May cause irritation to the mucous membranes and upper respiratory tract. May cause central nervous system effects
Skin contact	: Causes mild skin irritation
Eye contact	: Causes serious eye irritation.

Information on toxicological effects



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Acute toxicity (list all possible routes of exposure)

Oral Product	: LD 50 (Rat): 6.400 mg/kg
Dermal Product	: LD 50 (Rabbit): > 2.000 mg/kg
Inhalation Product	: No data available.
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: Prolonged or repeated skin contact may cause drying, cracking, or irritation
Serious eye damage/eye irritation Product	: Irritating to eyes.
Respiratory or skin sensitization Product	: Not a skin sensitizer.
Carcinogenicity Product	: This substance has no evidence of carcinogenic properties
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No carcinogenic components identified.
US. National Toxicology Program (NTP) Report on Carcinogens	: No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050	: No carcinogenic components identified.
Germ cell mutagenicity	
In vitro Product	: No data available.
Reproductive toxicity Product	: No components toxic to reproduction .
Specific target organ toxicity - single exposure Product	: Not known.
Specific target organ toxicity - repeated exposure Product	: None known.
Aspiration hazard Product	: Not classified
Other effects	: None known.

12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product	: LC 50 (Fathead minnow (Pimephales promelas), 96 h): 10,610 - 13,010 mg/l Mortality
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Aquatic invertebrates : LC 50 (Water flea (Daphnia magna), 24 h): 1,390 mg/l Mortality
Product : LC 50 (Brine shrimp (Artemia salina), 24 h): 5,600 mg/l Mortality
Chronic hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates : No data available.
Product

Toxicity to Aquatic Plants : No data available.
Product:

Persistence and degradability

Biodegradation Product : No data available.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor : No data available on bioaccumulation.
(BCF) Product

Partition coefficient n- : No data available.
octanol / water (log Kow)

Product

Mobility in soil : The product is soluble in water. May spread in the aquatic environment.

Other adverse effects : There are no data on the ecotoxicity of this product.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not regulated.		
IMDG			Not regulated.		
IATA			Not regulated.		

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

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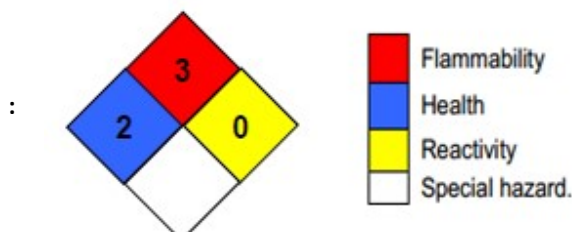
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16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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