

### **MATERIAL SAFETY DATA SHEET**

CAS Number: 102-71-6

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Version:01

PRODUCT NAME: TRIETHANOLAMINE

1. IDENTIFICATION:

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

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

Address W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,

NAVI MUMBAI - 400 701.

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**WEBSITE** : www.adventchembio.com

Company Phone Number : 022-27690837

#### 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 INGRADIENTS:

IngredientCAS NumberPercentHazardousTriethanolamine102-71-6NLT 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.

Move to fresh air. Call a physician or poison control center immediately. If

**Inhalation**: breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.

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,



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Most important

special treatment

symptoms/effects, acute

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and delayed

Indication of immediate medical attention and

needed

Toxic if inhaled. Toxic if swallowed. Toxic in contact with skin. Irritating to eyes,

respiratory system and skin.

: No data available.

#### 5. FIRE FIGHTING MEASURES:

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

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

Water spray, foam, dry powder or carbon dioxide.

remove contact lenses. Get medical attention.

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.

## **ACCIDENTAL RELEASE MEASURES:**

Personal precautions, protective equipment

and emergency procedures

Methods and material

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before

for containment and

cleaning up

precautions

entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. 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** 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.



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#### 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

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protective gloves/protective clothing/eye

protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist 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/m3 US. ACGIH Threshold Limit Values

5 μg/m3

5 mg/m3

(2011)

ST ESL 50 µg/m3 US. Texas. Effects Screening Levels

(Texas Commission on

Environmental Quality) (12 2010)

US. Texas. Effects Screening Levels

(Texas Commission on

Environmental Quality) (12 2010)

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

AN ESL

TWA PEL

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 airbarras laude below recommended exposure limits. If exposure limits have not

**General information** 

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.



Hygiene measures

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**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.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

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clothing and protective equipment to remove contaminants. Provide eyewash

station and safety shower. Avoid contact with eyes, skin, and clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance** : Clear, colourless to pale yellow, hygroscopic viscous liquid

Odor : Slight ammonia odor

**Solubility** : Miscible in water.

Formula : N(CH2CH2OH)3

Molecular Weight : 149.19 g/mol

**Specific Gravity** : 1.13 g/cm3 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

: No data available

(BuAc=1)

#### **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

: Hazardous polymerization does not occur.

**Conditions to avoid** : Heat, sparks, flames. Sunlight.

**Incompatible materials** : nonferrous metals, Light metals



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Hazardous

: In the event of fire: see section 5

decomposition products

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : Irritating. May cause nausea, stomach pain and vomiting.

May cause irritation to the mucous membranes and upper respiratory tract. May Inhalation

cause central nervous system effects

Skin contact Causes mild skin irritation

**Eve contact** : Causes serious eye irritation.

Information on toxicological effects

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

: No carcinogenic components identified.

**Humans** 

**US. National Toxicology** 

**Program (NTP) Report on**: No carcinogenic components identified.

Carcinogens

**US. OSHA Specifically** 

**Regulated Substances** (29 CFR 1910.1001-1050 Germ cell mutagenicity

: No carcinogenic components identified.

**In vitro Product** · No data available.

Reproductive toxicity

**Product** 

: No components toxic to reproduction .



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Specific target organ

toxicity - single exposure

Not known.

Product

Specific target organ

toxicity - repeated

: None known.

**exposure Product** 

**Aspiration hazard** 

: Not classified

Product 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

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

Product : No data available.

Toxicity to Aquatic

Plants Product: : No data available.

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-

Partition Coefficient II-

octanol / water (log : No data available.

**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.



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#### 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 Hazard Packaging Marine name Class(es) group 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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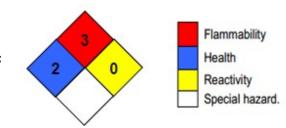
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#### **16. OTHER INFORMATION:**

**NFPA Hazard ID** 



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

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Version : 01

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