# SAFETY DATA SHEET



## TRIETHANOLAMINE AQUEOUS

**MTEA080** 

# Identification of the substance/preparation and of the company/undertaking

: TRIETHANOLAMINE AQUEOUS **Supplier** Brenntag UK and Ireland **Product name** 

> Albion House Rawdon Park Green Lane Yeadon Leeds LS19 7XX

: TRIETHANOLAMINE Chemical product name

TRIETHANOLAMINE AQUEOUS **Synonyms** 

2-HYDROXYETHYLAMINE

Telephone No. **EMERGENCY ONLY** : (N.C.E.C. CULHAM) 01865 407333 (0113) 3879200

TELEPHONE NUMBER

Fax No. (0113) 3879280

**Formula** : (HOCH2CH2)3N **Molecular Mass** 149.19

#### 2. Composition/information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) TRIETHANOLAMINE	102-71-6	85-100	203-049-8		

\* Occupational Exposure Limit(s), if available, are listed in Section 8

CONTAINS TRIETHANOLAMINE AT SPECIFIED MASS Composition

CONCENTRATION.

CAS No. 102-71-6 **EINECS Number** 203-049-8

#### 3. Hazards identification

#### 4. First-aid measures

## First-Aid measures

Inhalation

Remove from exposure. Remove from exposure. Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or shows signs of failing, give artificial respiration. Do not use mouth to mouth ventilation. Obtain medical attention urgently.

Ingestion

Wash out mouth with water. Have victim drink 240-300ml of water to dilute stomach contents. Obtain medical attention. Do not induce vomiting

Skin contact

Immediately flood the skin with large quantities of water, preferably under a shower. Obtain medical attention if bliste ring occurs or redness persists. Remove contaminated clothing as washing proceeds. Contaminated clothing should be washed or dry-cleaned before re-use.

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open.

Effects and symptoms

Skin contact

**Eye Contact** 

Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Eye Contact** Hazardous in case of eye contact (irritant).

#### 5. Fire-fighting measures

### **Extinguishing Media**

Suitable

- : Select extinguishing agent appropriate to other materials involved. Use water spray, foam, dry chemical or carbon dioxide. Use water spray, fog or alcohol resistant foam.
- Unusual fire/explosion Hazards

Hazardous thermal (de)composition products

- This product may give rise to hazardous fumes in a fire. These may include: Ammonia, carbon oxides, nitrogen oxides. Irritating vapours/gases may be formed.
- Special fire-fighting procedures
- : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

**Protection of fire-fighters** 

Wear full protective clothing and self-contained breathing apparatus.

Date of issue : 30/03/2010. Page: 1/3

### TRIETHANOLAMINE AQUEOUS

#### Accidental release measures 6.

**Personal Precautions** 

Ventilate the area to dispel possible toxic decomposition fumes. Wear appropriate protective clothing.

**Environmental precautions and** cleanup methods

- Transfer into suitable containers for recovery or disposal. Drench spillage with water and wash to drain, diluting greatly with water. Contain and absorb using earth, sand or other inert material.
- Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

#### 7. Handling and storage

Handling

Keep away from heat. Keep away from sources of ignition. Empty containers may still contain significant residual amounts of the product. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapour/spray. If ingested, seek medical advice immediately and show the container or the label.

Storage

Storage area should be: cool. under cover. well ventilated. Store under a nitrogen blanket. Protect from high temperatures, sunlight and freezing.

**Packaging materials** 

Recommended use

: Use original container.

#### 8. Exposure controls/personal protection

**Engineering measures** 

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are close to the workstation

Hygiene measures

Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Workplace Exposure Limits

Not available.

Personal protective equipment

Respiratory system

Wear appropriate respirator when ventilation is inadequate.

Skin and body Hands

Overalls or Lab coat. Chemical resistant gloves.

Chemical splash goggles.

#### 9. Physical and chemical properties

Physical state

Eyes

Hygroscopic. Viscous liquid.

Colour

**Odour** 

Colourless. Mild. Ammoniacal.

**Boiling point** 

>270°C (518°F)

<14°C (57.2°F)

**Melting point** Density

1.12 g/cm3 at 15°C (59°F)

Vapour density

5.3 (Air = 1)

Vapour pressure

<0.01 mbar at 40°C

Completely soluble.

**Solubility** 

Octanol/water partition coefficient

The product is more soluble in water; log(oil/water) = -2.3

Alkaline

Flash point

CLOSED CUP: >184°C (363.2°F).

**Autoignition temperature** 

>175°C (347°F)

Lower explosion limit

LOWER: 3.6% UPPER: 7.2% : Dynamic: 600 mPa.s at 25°C.

#### Stability and reactivity 10.

**Stability** 

Viscosity

The product is stable.

Materials to avoid

Acids, oxidising agents, zinc, aluminium, copper, copper alloys, potassium, magnesium.

Hazardous decomposition products

This product may give rise to hazardous fumes in a fire. These may include: Ammonia, carbon oxides, nitrogen oxides. Irritating vapours/gases may be formed.

#### 11. Toxicological information

**Local effects** 

Acute toxicity

: Acute oral toxicity (LD50): 5000 to 9600 mg/kg [Rat]. Acute dermal toxicity (LD50): >2000 mg/kg [Rabbit]. May cause irritation of respiratory tract.

Date of issue 30/03/2010. Page: 2/3

### TRIETHANOLAMINE AQUEOUS

## Ecological information

**Mobility** 

: Soluble in water.

Persistence/degradability

- : Readily biodegradable
- **Bioaccumulative potential**
- : Not expected to bioaccumulate.

**Ecotoxicity** 

Ecotoxicity in water:

(LC50): 1800 to 11800 mg/l, 96 hours [Fish]. (EC50): 739 to 2038 mg/l, 24 hours [Daphnia].

# 13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Waste Classification** 

: Not applicable.

# 14. Transport information

**International transport regulations** 

UN: UN number Not regulated.

## Regulatory information

### **EU Regulations**

**Risk Phrases** 

: This product is not classified according to the EU regulations.

**Product Use** 

Classification and labe lling have be en performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.

- Consumer applications.

## 16. Other information

## **HISTORY**

 Date of printing
 : 30/03/2010.

 Date of issue
 : 30/03/2010.

 Date of previous issue
 : 10/11/2009.

 Version
 : 2.02

Prepared by : Michael Hale / Alistair Hunter

### **Notice to Reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

CHANGES SINCE PREVIOUS VERSION
--------------------------------

Version 2: R36/38 removed from section 15.

Version 2.02 Page: 3/3