#### 1. Identification

1111087 Product Code

DIETHANOLAMINE pure Product Name

 $[CH_2(OH)CH_2]_2NH = 105.14$ Molecular Formula

111-42-2 CAS Number

Supplier:



CAMLAB LIMITED

Norman Way Industrial Estate Over Cambridge England CB4 5WE

01954 233110 Phone 01954 233101 Fax

08:00-17:00 01954 233110 Emergency Telephone

> 24hr 112 (Have this document to hand)

# 2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Diethanolamine	111-42-2		> 98.0%	Xn : R22,R38,R41,R48/22	WEL

### 3. Hazards Identification



Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

## 4. First Aid Measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open.

If discomfort persists OBTAIN MEDICAL ATTENTION.

Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash Skin

before re-use. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give

oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION

URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty

in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL

ATTENTION URGENTLY.

## 5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-

fighters should wear protective clothing and breathing apparatus. Vapour-air mixtures are

explosive.

Extinguishing Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep Media

fire exposed containers cool.

Unsuitable

Do not use water jet.

Media

### 6. Accidental Release Measures

Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective Personal Protection

equipment. Evacuate area immediately. Do not allow general use of area until it is safe to

do so.

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the

Environmental Agency and local Environmental Health Officer if major spillage occurs.

Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Major Spillage

Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

### 7. Storage & Handling

Handling Precautions All transfer systems should be earthed to prevent accumulation of static electricity. Avoid

contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended

limits.

Storage Conditions Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of

ignition. Keep containers closed when not in use. Keep well separated from oxidising

agents.

# 8.1 Workplace Exposure Limits

Workplace Exposure Limits 3.000 Long Term (8hr TWA): 15.00 mg m-3 ppm Short Term (15min Period): ppm mq m-3

## 8.2 Personal Protection

Respiratory Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits.

If not, use a well maintained chemical cartridge organic vapour respirator, or use self

contained breathing apparatus.

Hands Use solvent resistant gloves.

Eyes Use chemical splash proof glasses or goggles.

Skin Avoid contact with skin. If skin contact or contamination of clothing is likely, protective

clothing must be worn.

# 9. Physical & Chemical Properties

Appearance Clear colourless to pale yellow liquid.

Odour Slight ammoniacal odour.

рН 11 @ 20 °C Boiling point 269.0 °C Melting point 28.0 °C

154.4 °C(Closed cup) Flash point

Upper Flammable Limit 10.0 % 1.0 % Lower Flammable Limit

Auto Ignition Not available Explosive properties Slight. Oxidising Properties No.

Vapour Presure < 0.01 mmHg 1.0900 °C Relative Density

Water Solubility Moderately soluble in water.

## 10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

Mineral acids. Strong oxidising agents. Materials to Avoid

Hazardous Burning will produce toxic fumes of NOx, carbon monoxide and/or carbon dioxide.

Decomposition Products

## 11. Toxicological Information

The liquid or concentrated vapour will cause severe irritation and corneal damage. Eyes

Skin The liquid will be irritating to the skin. May be absorbed through the skin. May cause skin

sensitisation.

LD50 Skin Rabbit 3g/kg

Moderately toxic by ingestion. Ingestion of large amounts may cause severe internal Ingest

irritation and damage, nausea, vomiting, abdominal pains and diarrhoea.

LD50 Ingest Rat 1.41 g/kg

Inhalation Exposure to vapour concentrations above the occupational exposure limits may produce

irritation of the eyes and respiratory tract. High concentrations of vapour may cause loss

of appetite, dizziness, fatigue and nausea. Liver and kidney damage may also occur.

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects Not teratogenic but high doses have caused maternal and foetal toxicity.

# 12. Ecological

Readily bio-degraded in the environment.

# 13. Disposal Considerations

Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of

explosion.

#### 14. Transport Information

Proper Shipping Name Environmentally Hazardous Substance, Liquid, N.O.S.

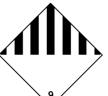
UN Number 3082

UN Classification 9 Miscellaneous

Subsidiary Risk None

154.4 °C(Closed cup) Flash Point

Packing Group III Transport Category Marine pollutant Yes ADR Hazard ID 90





## 15. Regulatory Information

Labelling Harmful.

Classification

Label Symbols



Risk & safety Phrases

Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. If

swallowed, seek medical advice immediately and show this container or label.

EEC Number Not available

# 16. Other Information

Document Information

This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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