# Camlab Limited - Material Safety Data Sheet

#### 1. Identification

Product Code CC/1715-DA

Product Name DIETHYLAMINE pure

Molecular Formula  $(C_2H_5)_2NH = 73.14$ 

CAS Number 109-89-7

Supplier:



CAMLAB LIMITED

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24hr 112

(Have this document to hand)

# 2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Diethylamine	109-89-7	203-716-3	> 99.0%	F C : R11,R20/21/22,R35	WEL

#### 3. Hazards Identification





Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Causes severe burns.

# 4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the

eye open. OBTAIN MEDICAL ATTENTION.

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

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. Vapours may flow along surfaces to distant ignition sources and flash back.

Extinguishing Alcohol resistant foam, dry powder, carbon dioxide or vaporising liquid. Use water spray to

Media keep fire exposed containers cool.

Unsuitable Do not use water jet. Media

#### 6. Accidental Release Measures

Personal Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective Protection equipment. Evacuate area immediately. Do not allow general use of area until it is safe to

do so. Beware : vapour is heavier than air and will tend to accumulate at low spots.

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

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

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

Wash area down with copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Allow

solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste.

Wash area down with copious amounts of water.

#### 7. Storage & Handling

Handling Precautions 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 Long Term (8hr TWA): 10.00 ppm 30.00 mg m-3 Short Term (15min Period): 25.00 ppm 76.00 mg 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 full face shield.

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 liquid.

Odour Characteristic amine odour.

pH Not available Boiling point 55.5 °C Melting point 49.8- °C

Flash point 39.0- °C(Closed cup)

Upper Flammable Limit 10.1 % Lower Flammable Limit 1.8 % Auto Ignition 310.0 °C

Explosive properties Moderate/severe in confined spaces.

Oxidising Properties No.
Vapour Presure 195 mm/Hg
Relative Density 0.7049

Water Solubility Completely miscible in water.

#### 10. Stability & Reactivity

Chemical Stability Stable under normal conditions

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

Materials to Avoid Acids. Strong oxidising agents.

### 10. Stability & Reactivity (continued)

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

Decomposition Products

# 11. Toxicological Information

Both the vapour and liquid will, be irritating to the eyes.

Both the vapour and liquid will, be irritating to the skin. Skin

LD50 Skin Rabbit 820 mg/kg

Ingestion of large amounts will cause Causes severe corrosion of the mouth, throat and Ingest

gastro-intestinal tract.

LD50 Ingest oral Rat 540 mg/Kg

Inhalation High concentrations of vapour will produce irritation of the eyes, nose, throat and

respiratory tract.

Carcinogenicity Not considered to be a carcinogen.

Not considered to be a mutagen. Mutagenicity

Reproductive Effects None identified.

Other Information Air odour threshold is 0.3 ppm.

# 12. Ecological

A problem material due to it's intense odour. However it is readily biodegraded in the environment.

#### 13. Disposal Considerations

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

waste. Never dispose of into water courses or sewerage systems due to high risk of

explosion.

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

#### 14. Transport Information

Proper Shipping Name Diethylamine

UN Number 1154

UN Classification 3 Flammable liquid Subsidiary Risk

8 Corrosive

39.0- °C(Closed cup)

Packing Group ΙI Transport Category Marine pollutant No ADR Hazard ID 338





# 15. Regulatory Information

Labelling Highly Flammable, Corrosive.

Classification

Flash Point

Label Symbols







# 15. Regulatory Information (continued)36/37/39,S45

Risk & safety Phrases

Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Causes severe burns. Keep locked up and out of reach of children. Keep in a cool place. Keep away from sources of ignition - No Smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not empty in to drains. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label).

EEC Number 203-716-3

# 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.

Revision Date: 10/06/05.

Data reviewed and PDF file generated: 17/03/10.

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