# Safety data for diethylenetriamine

Glossary of terms on this data sheet.

The information on this web page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web sites of many chemical suppliers.

### General

Synonyms: aminoethylethandiamine, 3-azapentane-1,5-diamine,

bis(2-aminoethyl)amine, bis(beta-aminoethyl)amine, 2,2'-

diaminodiethylamine, 2,2'-iminobisethylamine, 1,4,7-triazaheptane

Use:

Molecular formula: C<sub>4</sub>H<sub>13</sub>N<sub>3</sub>

CAS No: 111-40-0

EINECS No: 203-865-4

Annex I Index No: 612-058-00-X

# Physical data

Appearance: colourless liquid

Melting point: -35 C

Boiling point: 200 - 205 C Vapour density: 3.6 g/l

Vapour pressure:

Density (g cm<sup>-3</sup>): 0.95

Flash point: 102 C (closed cup)

Explosion limits: 2 - 6.7%

Autoignition temperature: 358 C

Water solubility:

# **Stability**

Stable, but absorbs carbon dioxide from the air. Incompatible with strong oxidizing agents, copper and its alloys.

# **Toxicology**

Harmful if swallowed and in contact with the skin. Causes burns. very destructive of mucous membranes. May act as a sensitizer. Typical OEL 1 ppm.

#### **Toxicity data**

(The meaning of any toxicological abbreviations which appear in this section is given <a href="here.">here.</a>)
ORL-RAT LD50 1080 mg kg<sup>-1</sup>
IPR-RAT LD50 74 mg kg<sup>-1</sup>
SKN-RBT LD50 1090 mg kg<sup>-1</sup>

#### **Risk phrases**

(The meaning of any risk phrases which appear in this section is given <a href="here.">here.</a>)
R21 R22 R34 R43.

### Transport information

(The meaning of any UN hazard codes which appear in this section is given <a href="here.">here.</a>)
UN No 2079. Hazard class 8. Packing group II.

### **Personal protection**

Safety glasses, gloves, good ventilation.

### Safety phrases

(The meaning of any safety phrases which appear in this section is given <a href="here.">here.</a>)
S26 S36 S37 S39 S45.

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### **Property Description Specifications UNITS**

Appearance Clear and Colorless Color 30 max PT-CO Water Content .5 max Wt.% Purity 98.5 min Wt.%

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