SECTION-1: Identification of the substance / mixture and the company / undertaking

Catalogue Number	CS-T-89991
Product Name	Diethylenetriamine
CAS No.	111-40-0
Category	Reagents
Synonyms	Not available
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	Not available

SECTION 2: Hazards identification

Disclaimer: This is sample MSDS. Please email **sales@clearsynth.com** for more details.

2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Acute toxicity (Category 4)

2.2 Label Elements

Signal Word: Warning

Hazard Statement(s)

Code	Statement
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Not available
H317	May cause an allergic skin reaction.

H318	Causes serious eye damage.
H330	Not available
H335	Not available
H411	Toxic to aquatic life with long lasting effects.
H334	Not available
H360	Not available
H402	Not available
H311	Not available

Precautionary Statement(s)

Code	Statement
P260	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Not available
P272	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P317	Not available
P301+P330+P331	Not available
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P302+P361+P354	Not available
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338	Not available
P316	Not available
P317	Not available
P321	Specific treatment (see … on this label).
P330	Not available
P333+P317	Not available
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Not available

P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulatio
P264+P265	Not available
P271	Use only outdoors or in a well-ventilated area.
P284	Not available
P319	Get medical help if you feel unwell.
P320	Not available
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P273	Not available
P391	Not available
P233	Not available
P342+P316	Not available
P403	Not available
P203	Not available
P318	Not available
P262	Not available
P361+P364	Not available

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Diethylenetriamine
CAS Number : 111-40-0
Molecular Formula : C4H13N3
Molecular Weight : 103.2
Parent Chemical : Trientine
Synonyms : Not available
Concentration : Not available

SECTION 4: First aid measures

Not available

SECTION 5: Firefighting measures

Not available

SECTION 6: Accidental release measures

Not available

SECTION-7: Handling and storage

Not available

SECTION 8: Exposure controls / personal protection

Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available

Property	Value
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

SECTION 10: Stability and reactivity

Not available

SECTION 11: Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: For more Human Toxicity Excerpts (Complete) data for DIETHYLENETRIAMINE (6 total), please visit the HSDB record page. For more Non-Human Toxicity Excerpts (Complete) data for DIETHYLENETRIAMINE (9 total), please visit the HSDB record page.
- Skin corrosion/irritation: IT IS A POTENT PRIMARY SKIN IRRITANT, CAUSING EDEMA & SOMETIMES NECROSIS. THE SKIN IRRITATION IS FREQUENTLY COMPLICATED BY A HIGH INCIDENCE OF ALLERGIC SKIN SENSITIZATION. THE MAJORITY OF WORKERS CHRONICALLY EXPOSED TO IT BECOME SENSITIZED.
- Serious eye damage/eye irritation: No data available.
- Respiratory or skin sensitization: irritation eyes, skin, mucous membrane, upper respiratory system; dermatitis, skin sensitization; eye, skin necrosis; cough, dyspnea (breathing difficulty), pulmonary sensitization Diethylenetriamine is characterized by its capacity to cause severe corneal injury and pulmonary and cutaneous sensitization in humans. Solutions of from 15% to 100% caused lasting corneal damage; 5% only minor injury; and unless properly controlled, the vapor and liquid cause sensitization of the respiratory tract and skin with relatively high frequency. Pulmonary and cutaneous sensitization occur with relatively high frequency unless adequate measures are taken to control all contacts. ... Little exposure is necessary in some cases to induce a high degree of sensitivity.
- Germ cell mutagenicity: Diethylenetriamine was evaluated by mutagenicity in the Salmonella/microsome preincubation assay using a standard protocol approved by the National Toxicology Program. Diethylenetriamine was tested at doses of 0, 33, 100, 333, 1000, 3333, and 10,000 ug/plate in four Salmonella typhimurium strains (TA98, TA100, TA1535, and TA1537) in the presence and absence of Aroclor-induced rat or hamster liver S9. Diethylenetriamine was negative in these tests and the highest ineffective dose level tested without slight or total clearing of the background lawn in any Salmonella tester strain was 1000 ug/plate.
- Carcinogenicity: No data available.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.

- STOT-repeated exposure: IT IS A POTENT PRIMARY SKIN IRRITANT, CAUSING EDEMA & SOMETIMES NECROSIS. THE SKIN IRRITATION IS FREQUENTLY COMPLICATED BY A HIGH INCIDENCE OF ALLERGIC SKIN SENSITIZATION. THE MAJORITY OF WORKERS CHRONICALLY EXPOSED TO IT BECOME SENSITIZED.
- Aspiration hazard: No data available.

Likely routes of exposure
- No data available.

Symptoms related to the physical, chemical and toxicological characteristics
- Sore throat. Cough. Burning sensation. Laboured breathing. Symptoms may be delayed.

SECTION 12: Ecological information

Not available

SECTION 13: Disposal considerations

Not available

SECTION 14: Transport information

Not available

SECTION 15: Regulatory information

Not available

SECTION 16: Other information

Not available

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