

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

Catalogue Number	CS-SR-00617
Product Name	Ethylene Diamine, 99.5%
CAS No.	107-15-3
Category	Biochemicals
Synonyms	ethane-1,2-diamine
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
H226	Not available
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Not available

H317	May cause an allergic skin reaction.
H334	Not available
H302+H332	Harmful if swallowed. Harmful if inhaled.
H311	Not available
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H412	Not available
H361	Not available
H370	Not available
H373	Not available
H401	Not available

Precautionary Statement(s)

Code	Statement
P210	Not available
P233	Not available
P240	Not available
P241	Not available
P242	Not available
P243	Not available
P260	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Not available
P271	Use only outdoors or in a well-ventilated area.
P272	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Not available
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
P303+P361+P353	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
P342+P316	Not available
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Not available
P370+P378	Not available
P403	Not available
P403+P235	Not available
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation
P262	Not available
P264+P265	Not available
P273	Not available
P361+P364	Not available
P203	Not available
P308+P316	Not available
P318	Not available
P319	Get medical help if you feel unwell.

SECTION 3: Composition / information on ingredients

3.1 Substance

Component : Ethylene Diamine, 99.5%

CAS Number : 107-15-3
 Molecular Formula : C₂H₈N₂
 Molecular Weight : 60.10
 Parent Chemical : -
 Synonyms : ethane-1,2-diamine
 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

Property	Value
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
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 ETHYLENEDIAMINE (14 total), please visit the HSDB record page. For more Non-Human Toxicity Excerpts (Complete) data for ETHYLENEDIAMINE (13 total), please visit the HSDB record page.

- Skin corrosion/irritation: OBSERVATIONS ON ANIMALS SHOW THAT VAPORS ARE IRRITATING TO EYES, MUCOUS MEMBRANES AND RESPIRATORY TRACT AND THAT THE LIQUID CAUSES SEVERE SKIN CORROSION AND CORNEAL INJURY. REPEATED EXPOSURES OF RATS TO MEASURED CONCEN OF ... VAPORS PRODUCED DEPILATION, AND LUNG, KIDNEY, AND LIVER DAMAGE AT 484 PPM WITH LESSER DEGREES OF INJURY AT 225 AND 132 PPM. NO INJURY WAS OBSERVED @ 125 PPM CONTINUED FOR 37-HR EXPOSURES ... RENAL TUBULAR DAMAGE AND PROTEINURIA ARE PRODUCED IN RATS FROM INTRAPERITONEAL DOSES OF 300 MG/KG.

- Serious eye damage/eye irritation: No data available.

- Respiratory or skin sensitization: irritation nose, respiratory system; sensitization dermatitis; asthma; liver, kidney damage THE SENSITIZATION CAPACITY OF ETHYLENEDIAMINE (EDA) WAS COMPARED WITH

DINITROCHLOROBENZENE (DNCB) ON GUINEA PIGS. EDA WAS A POTENT SENSITIZER. ORAL INDUCTION OF UNRESPONSIVENESS (TOLERANCE) WAS UNSUCCESSFUL WITH BOTH CMPD. IV ADMIN OF EDA WAS ALSO NEGATIVE.

- Germ cell mutagenicity: No data available.
- Carcinogenicity: Inadequate information to assess carcinogenic potential Cancer Classification: Group D Not Classifiable as to Human Carcinogenicity
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: OBSERVATIONS ON ANIMALS SHOW THAT VAPORS ARE IRRITATING TO EYES, MUCOUS MEMBRANES AND RESPIRATORY TRACT AND THAT THE LIQUID CAUSES SEVERE SKIN CORROSION AND CORNEAL INJURY. REPEATED EXPOSURES OF RATS TO MEASURED CONC N OF ... VAPORS PRODUCED DEPILATION, AND LUNG, KIDNEY, AND LIVER DAMAGE AT 484 PPM WITH LESSER DEGREES OF INJURY AT 225 AND 132 PPM. NO INJURY WAS OBSERVED @ 125 PPM CONTINUED FOR 37-HR EXPOSURES ... RENAL TUBULAR DAMAGE AND PROTEINURIA ARE PRODUCED IN RATS FROM INTRAPERITONEAL DOSES OF 300 MG/KG.
- Aspiration hazard: No data available.

Likely routes of exposure

- VOLUNTARY VAPOR INHALATION FOR 5 TO 10 SECONDS PRODUCED TINGLING OF THE FACE AND IRRITATION OF THE NASAL MUCOSA AT 200 PPM AND SEVERE NASAL IRRITATION AT 400 PPM.

Symptoms related to the physical, chemical and toxicological characteristics

- PULMONARY EDEMA HAS BEEN PRODUCED, WITH HEMORRHAGE AND BRONCHOPNEUMONIA, NEPHRITIS /AND/ LIVER DEGENERATION ... IN RABBITS REPEATEDLY EXPOSED TO ETHYLAMINES. ... SIMILAR EFFECTS OCCUR IN ANIMALS EXPOSED TO ETHYLENEDIAMINE.

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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