

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

<b>Catalogue Number</b>	CS-T-82937
<b>Product Name</b>	Nabam
<b>CAS No.</b>	142-59-6
<b>Category</b>	Pesticide Standards
<b>Synonyms</b>	sodium ethane-1,2-diyldicarbamodithioate
<b>Brand</b>	Clearsynth Labs Ltd.
<b>Identified uses</b>	Laboratory Chemicals
<b>Uses advised against</b>	Not available
<b>Company</b>	Clearsynth Labs Ltd. Mumbai, India
<b>Emergency Phone #</b>	+91-22-245045900
<b>REACH No.</b>	Not available

### SECTION 2: Hazards identification

**Disclaimer:** This is sample MSDS. Please email [sales@clearsynth.com](mailto: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.
H317	May cause an allergic skin reaction.
H335	Not available
H400	Not available

H410	Not available
H336	Not available
H341	Not available
H360	Not available
H371	Not available
H373	Not available

### Precautionary Statement(s)

Code	Statement
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
P273	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P317	Not available
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P319	Get medical help if you feel unwell.
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.
P391	Not available
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation
P203	Not available
P260	Not available

P308+P316	Not available
P318	Not available

### SECTION 3: Composition / information on ingredients

#### 3.1 Substance

Component : Nabam

CAS Number : 142-59-6

Molecular Formula : C<sub>2</sub>H<sub>4</sub>N<sub>2</sub>Na<sub>2</sub>S<sub>2</sub>

Molecular Weight : 256.33 g/mol

Parent Chemical : Not available

Synonyms : sodium ethane-1,2-diylldicarbamodithioate

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

Test	Result
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
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 Nabam (6 total), please visit the HSDB record page. /LABORATORY ANIMALS: Acute Exposure/ ... For many compounds, the toxicity is often influenced by the method of application, e.g., solvents used, age and sex of animal, type of diet, etc. Thus, in rats fed an

isocaloric diet containing 3.5% protein, the LD50 of nabam was 210 mg/kg body weight, compared with 565 mg/kg in rats fed the same diet plus 26% protein ...

- Skin corrosion/irritation: /HUMAN EXPOSURE STUDIES/ The irritant and allergic potential of most dithiocarbamates is evident in occupational exposure. Skin irritation and sensitization were studied in man using a conventional patch test. A cotton square was dipped in 19% nabam solution and placed on the inner surface of the forearm, and, 14 days later, this procedure was repeated on the opposite forearm. Zineb was tested in the same manner, except that the cotton square was dipped in 65% wetttable powder. The patches were left in place for 48 hr. Of the 25 subjects included in the nabam study, 2 showed irritation (mild erythema and itching). Thirteen of the 25 reacted to the retest (from mild erythema to severe erythema, edema, and vesiculation), indicating sensitization. Of the 50 subjects used in the zineb study, no reaction at all was seen in 49 of them. One reacted in such a way that it indicated primary irritation rather than sensitization ... /SIGNS AND SYMPTOMS/ Some applicators have experienced mild dermatitis, pharyngitis, rhinitis, bronchitis, and conjunctivitis from high exposure ... Skin irritation tests in humans showed reactions in 13 of 25 subjects including severe edema, erythema, vesiculation, and indications of development of sensitization reactions.

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

- Respiratory or skin sensitization: /HUMAN EXPOSURE STUDIES/ The irritant and allergic potential of most dithiocarbamates is evident in occupational exposure. Skin irritation and sensitization were studied in man using a conventional patch test. A cotton square was dipped in 19% nabam solution and placed on the inner surface of the forearm, and, 14 days later, this procedure was repeated on the opposite forearm. Zineb was tested in the same manner, except that the cotton square was dipped in 65% wetttable powder. The patches were left in place for 48 hr. Of the 25 subjects included in the nabam study, 2 showed irritation (mild erythema and itching). Thirteen of the 25 reacted to the retest (from mild erythema to severe erythema, edema, and vesiculation), indicating sensitization. Of the 50 subjects used in the zineb study, no reaction at all was seen in 49 of them. One reacted in such a way that it indicated primary irritation rather than sensitization ... /SIGNS AND SYMPTOMS/ Some applicators have experienced mild dermatitis, pharyngitis, rhinitis, bronchitis, and conjunctivitis from high exposure ... Skin irritation tests in humans showed reactions in 13 of 25 subjects including severe edema, erythema, vesiculation, and indications of development of sensitization reactions.

- Germ cell mutagenicity: No data available.

- Carcinogenicity: No data available.

- Reproductive toxicity: No data available.

- STOT-single exposure: No data available.

- STOT-repeated exposure: No data available.

- Aspiration hazard: No data available.

Likely routes of exposure

- LC50 Rat inhalation 2.19 mg/L/4 hr

Symptoms related to the physical, chemical and toxicological characteristics

- /SIGNS AND SYMPTOMS/ It is irritating to the skin and mucous membranes, and it is /SRP: a CNS depressant/ in high concentrations.

## 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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