 <b>CYNOR LABORATORIES</b>	<b>CYNOR LABORATORY</b>
<b>Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.</b> <b>Email: <a href="mailto:cynorlaboratories@gmail.com">cynorlaboratories@gmail.com</a> Mobile No.: +91 8799070507</b>	

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

### 1.1 Product identifiers

Product name : N,N,N,N-TETRAMETHYL ETHYLENEDIAMINE  
CAS-No. : 110-18-9

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

### 1.3 Details of the supplier of the safety data sheet

**Company identification:** CYNOR LABORATORIES

National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

**Email: [cynorlaboratories@gmail.com](mailto:cynorlaboratories@gmail.com) Mobile No.: +91 8799070507**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Flammable liquids (Category 2), H225

Skin corrosion (Category 1B), H314

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Oral (Category 4), H302

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

**Labelling according Regulation (EC) No 1272/2008**

Pictogram



Signal word

Danger


Hazard statement(s)

H225

Highly flammable liquid and vapour.

H302

Harmful if swallowed.

 <b>CYNOR LABORATORIES</b>	<b>CYNOR LABORATORY</b>
H 3	<b>Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.</b> <b>Email: <a href="mailto:cynorlaboratories@gmail.com">cynorlaboratories@gmail.com</a> Mobile No.: +91 8799070507</b>

14 H33 2	Causes severe skin burns and eye damage. Harmful if inhaled.
Precautionary statement(s) P210 P280 P305 + P351 + P338 P310	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
Supplemental Hazard Statements	none

### 2.3 Other hazards - none

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Formula	: C <sub>6</sub> H <sub>16</sub> N <sub>2</sub>
Molecular weight	: 116,21 g/mol
CAS-No.	: 110-18-9
EC-No.	: 203-744-6
Index-No.	: 612-103-00-3

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid

#### measures General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact


Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

 <b>CYNOR LABORATORIES</b>	<b>CYNOR LABORATORY</b>
<b>Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.</b> <b>Email: <a href="mailto:cynorlaboratories@gmail.com">cynorlaboratories@gmail.com</a> Mobile No.: +91 8799070507</b>	

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

Use water spray to cool unopened containers.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

**6.2 Environmental precautions**


Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**6.4 Reference to other sections**

For disposal see section 13.

 <b>CYNOR LABORATORIES</b>	<b>CYNOR LABORATORY</b>
<b>Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.</b> <b>Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507</b>	

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Handle and store under inert gas. Air and moisture sensitive.

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

**Components with workplace control parameters**

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## **Personal protective equipment**

### **Eye/face protection**


Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

 <b>CYNOR LABORATORIES</b>	<b>CYNOR LABORATORY</b>
<b>Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.</b> <b>Email: <a href="mailto:cynorlaboratories@gmail.com">cynorlaboratories@gmail.com</a> Mobile No.: +91 8799070507</b>	

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).


### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

- |   |  |
|---|--|
| a) Appearance   | Form: liquid,<br>clear Colour:<br>colourless               |
| b) Odour  | No data available  |
| c) Odour Threshold  | No data available  |
| d) pH   | No data available  |
| e) Melting point/freezing<br>- lit. point                         | Melting point/range: -55 °C                                |
| f) Initial boiling point and 120 - 122 °C -<br>lit. boiling range |  |
| g) Flash point  | 20 °C - closed cup   |
| h) Evaporation rate   | No data available  |
| i) Flammability (solid, gas)                                      | No data available  |
| j) Upper/lower<br>%(V) flammability or<br>%(V) explosive limits   | Upper explosion limit: 9,08<br>Lower explosion limit: 0,98 |
| k) Vapour pressure  | No data available  |
| l) Vapour density   | No data available  |
| m) Relative density   | 0,775 g/cm <sup>3</sup> at 20 °C                           |
| n) Water solubility   | soluble  |
| o) Partition coefficient: n-<br>0,3 octanol/water                 | log Pow:   |
| p) Auto-ignition<br>available temperature                         | No data  |

 <b>CYNOR LABORATORIES</b>	<b>CYNOR LABORATORY</b>
<b>Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.</b> <b>Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507</b>	

q) Decomposition No data  
available temperature

r) Viscosity No data available

s) Explosive properties No data available

t) Oxidizing properties No data available

## 9.2 Other safety information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Strong oxidizing agents, Carbon dioxide (CO<sub>2</sub>), Copper

### 10.6 Hazardous decomposition products

Other decomposition products - No data  
available In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological

#### effects Acute toxicity

LD50 Oral - Rat - 268 mg/kg

LC50 Inhalation - Rat - 4 h - 1318

ppm LD50 Dermal - Rabbit - 5.390

mg/kg

#### Skin corrosion/irritation

No data available


#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Severe eye irritation

#### Respiratory or skin sensitisation

No data available

 <b>CYNOR LABORATORIES</b>	<b>CYNOR LABORATORY</b>
<b>Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.</b> <b>Email: <a href="mailto:cynorlaboratories@gmail.com">cynorlaboratories@gmail.com</a> Mobile No.: +91 8799070507</b>	

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: KV7175000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema

**SECTION 12: Ecological information**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**


No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

No data available

 <b>CYNOR LABORATORIES</b>	<b>CYNOR LABORATORY</b>
<b>Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.</b> <b>Email: <a href="mailto:cynorlaboratories@gmail.com">cynorlaboratories@gmail.com</a> Mobile No.: +91 8799070507</b>	

## SECTION 13: Disposal considerations

### 13.1 Waste treatment

#### methods Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: 2372

IMDG: 2372

IATA: 2372

### 14.2 UN proper shipping name

ADR/RID: 1,2-DI-(DIMETHYLAMINO)

ETHANE IMDG: 1,2-DI-

(DIMETHYLAMINO)ETHANE

IATA: 1,2-Di-(dimethylamino) ethane

### 14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

### 14.4 Packaging group

ADR/RID: II

IMDG: II

IATA: II

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

No data available

## SECTION 15: Regulatory information


This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out



 <b>CYNOR LABORATORIES</b>	<b>CYNOR LABORATORY</b>
<b>Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.</b> <b>Email: <a href="mailto:cynorlaboratories@gmail.com">cynorlaboratories@gmail.com</a> Mobile No.: +91 8799070507</b>	

## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.

### End of document

**Prepared by: CYNOR LABORATORIES**

**For questions contact: CYNOR LABORATORIES**

**Office: CYNOR LABORATORIES**

National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

**Email: [cynorlaboratories@gmail.com](mailto:cynorlaboratories@gmail.com) Mobile No.: +91 8799070507**

(The statements contained herein are offered for informational purposes only and are based upon technical data that CYNOR believes to be accurate. It is intended for use only by persons having the necessary technical skills and at their own discretion and risk. Since conditions and manner of use are outside our control, we make NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.)