# MATERIAL SAFETY DATA SHEET

**Email:** sales@clearsynth.com , info@clearsynth.com

## SECTION-1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** : 4-nitrosopiperazin-1-amine hydrochloride hydrate

**Catalogue Number** : CS-EO-03248

**Company Identification** : Clearsynth Labs Ltd.
17, Lotus Business Park,
New Link Road, Andheri (W),
Mumbai-400053, INDIA

**For Emergency Call** : +91-22-245045900

**Recommended Use** : Laboratory Chemicals and Manufacture of substances

## SECTION-2: HAZARDS IDENTIFICATION

**GHS Hazards Classification**

Not a hazardious substance by GHS

**GHS Label Elements And Hazards Statements**

None

**Hazard Statement(s)**

No data available.

**GHS Precautionary Statements**

No data available.

**Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS**

No data available.

## SECTION-3: COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** : 4-nitrosopiperazin-1-amine hydrochloride hydrate

**CAS Number** : NA

**Molecular Formula** : $C_4H_{13}ClN_4O_2$

**Molecular weight** : 184.62 (g / mol)

## SECTION-4: FIRST AID MEASURES

**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:** Wash off with soap and plenty of water. 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:** Never give anything by mouth to an unconscious person.Rinse mouth with water.Consult a physician.

## SECTION-5: FIRE FIGHTING MEASURES

**Chemical Hazards From Arising From Substance Fire**

During a fire,irritating & highly toxic gases may be generated by thermal decomposition or combustion.

**Suitable Extinguishing Media**

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

**Advice For Firefighters**

Wear self-contained breathing appratus & full protective gear to prevent contact with skin & eyes.

## SECTION-6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment And Emergency Procedures**

Use personal protective equipment as indicated in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental Precautions**

Do not let product enter drains or water sources.

**Cleaning up of Spills/Leaks**

Vacuum or sweep up material and place into suitable disposal container without creating dust.

## SECTION-7: HANDLING AND STORAGE

**Precautions For Safe Handling**

Avoid contact with eyes, skin and clothing.

Avoid ingestion and inhalation.

Keep away from sources of ignition.

**Storage**

Keep container tightly closed.

Store at refrigerator (2-8°C) for long term storage

## SECTION-8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Appropriate Engineering Controls**

Follow safe industrial engineering/laboratory practices when handling any chemical.

**Personal Protective Equipment**

**Eyes:** Wear safety glasses and chemical goggles if splashing is possible.

**Skin:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Wear a NIOSH/MSHA or European Standard EN 149 approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions.

## SECTION-9: PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| **Physical State** | : | Solid |
| **Color** | : | Off White |
| **Odor** | : | No data available. |
| **pH** | : | No data available. |
| **Vapour Pressure** | : | No data available. |
| **Viscosity** | : | No data available. |
| **Boiling Point** | : | No data available. |
| **Melting Point** | : | No data available. |
| **Auto Ignition Temperature** | : | No data available. |
| **Flash Point** | : | No data available. |
| **Explosion Limit, Lower** | : | No data available. |
| **Explosion Limit, Upper** | : | No data available. |
| **Decomposition Temperature** | : | No data available. |
| **Loss on Drying** | : | No data available. |
| **Specific Gravity / Density** | : | No data available. |
| **Solubility** | : | Soluble in DMSO |

## SECTION-10: STABILITY AND REACTIVITY

**Chemical Stability :** Stable under recommended storage conditions.

**Condition to Avoid :** No data available.

**Incompatibilities with Other Materials :** Strong oxidizing agents, strong bases.

**Hazardas Decomposition Products :** No data available.

**Hazardas Polymerization :** No data available.

## SECTION-11: TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects**

| | | |
|---|---|---|
| **Acute Toxicity** | : | No data available. |
| **Skin Irritation/Corrosion** | : | No data available. |
| **Eye Damage/Irritation** | : | No data available. |
| **Respiratory or Skin Sensitization** | : | No data available. |
| **Germ Cell Mutagenicity** | : | No data available. |
| **Carcinogenicity** | : | No data available. |
| **Reproductive Toxicity** | : | No data available. |
| **Special Remark on Other** | : | No data available. |
| **Toxic Effects on Humans** | : | No data available. |
| **Routes of Exposure** | : | No data available. |

## SECTION-12: ECOLOGICAL INFORMATION

No data available.

## SECTION-13: DISPOSAL CONSIDERATION

Dispose in a manner consitent with country, state and local regulations. product is not to be disposed of in sanitary sewers,storm sewers or landfills.Contact a licensed professional waste disposal service to dispose of this

## SECTION-14: TRANSPORT INFORMATION

**UN Number :**

| | | |
|---|---|---|
| DOT (US) | : | NA |
| IATA | : | NA |
| IMDG | : | NA |
| ADR/RID | : | NA |

**UN Proper Shipping Name :**

| | | |
|---|---|---|
| DOT (US) / IATA | : | Not dangerous goods |
| IMDG / ADR / RID | : | Not dangerous goods |

**Transport Hazard Class (es) :**

| | | |
|---|---|---|
| DOT (US) | : | NA |
| IATA | : | NA |
| IMDG | : | NA |
| ADR/RID | : | NA |

**Packing Group :**

| | | |
|---|---|---|
| DOT (US) | : | NA |
| IATA | : | NA |
| IMDG | : | NA |
| ADR/RID | : | NA |

**Environmental Hazards :**

| | | |
|---|---|---|
| DOT (US) | : | None |
| IATA | : | None |
| IMDG | : | None |
| ADR/RID | : | None |

## SECTION-15: REGULATORY INFORMATION

This safety data sheet complies with the requirements OHSAS 18001:2007

## SECTION-16: ADDITIONAL INFORMATION

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages. Howsoever arising, even if the company has been advised of the possibility of such damages.