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

1.1 Product identifiers
Product name: Ethylene Diamine Tetra Acetic Acid Tetra Sodium Salt
CAS-No.: 10378-23-1

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: Central Drug House (P) Ltd
7/28 Vardaan House
New Delhi-10002
INDIA
Telephone: +91 11 49404040
Email: care@cdhfinechemical.com

1.4 Emergency telephone number
Emergency Phone #: +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Acute toxicity, Oral (Category 4), H302
Serious eye damage (Category 1), H318
For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Xn Harmful R22
Xi Irritant R41
For the full text of the R-phrases 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)
H302 Harmful if swallowed.
H318 Causes serious eye damage.

Precautionary statement(s)
P280 Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements
none

SECTION 3: Composition/information on ingredients

3.1 Substances
Formula: C_{10}H_{12}N_2Na_4O_8 \cdot 2H_2O
Molecular Weight: 416.20 g/mol
CAS-No.: 10378-23-1
EC-No.: 200-573-9
Index-No.: 607-428-00-2

Hazardous ingredients according to Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylenediaminetetraacetic acid tetrasodium salt dihydrate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS-No.</td>
<td>10378-23-1</td>
<td>Acute Tox. 4; Eye Dam. 1;</td>
</tr>
<tr>
<td>EC-No.</td>
<td>200-573-9</td>
<td>H302, H318</td>
</tr>
</tbody>
</table>

Hazardous ingredients according to Directive 1999/45/EC

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<td>Xn, R22 - R41</td>
</tr>
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<td>200-573-9</td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements and R-Phrases 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
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.

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 (NOx), Sodium oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
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.

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
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses 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, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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**
Do not let product enter drains.

**SECTION 9: Physical and chemical properties**

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

- **a)** Appearance
  - Form: crystalline
  - Colour: white

- **b)** Odour
  - No data available

- **c)** Odour Threshold
  - No data available

- **d)** pH
  - No data available

- **e)** Melting point/freezing point
  - No data available

- **f)** Initial boiling point and boiling range
  - No data available

- **g)** Flash point
  - No data available

- **h)** Evaporation rate
  - No data available

- **i)** Flammability (solid, gas)
  - No data available

- **j)** Upper/lower flammability or explosive limits
  - No data available

- **k)** Vapour pressure
  - No data available

- **l)** Vapour density
  - No data available

- **m)** Relative density
  - No data available

- **n)** Water solubility
  - No data available

- **o)** Partition coefficient: n-octanol/water
  - No data available

- **p)** Auto-ignition temperature
  - No data available

- **q)** Decomposition temperature
  - No data available

- **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**
   no data available

10.5 **Incompatible materials**
   Strong oxidizing agents, Strong acids

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 - 630 - 1,260 mg/kg

   **Skin corrosion/irritation**
   no data available

   **Serious eye damage/eye irritation**
   Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

   **Respiratory or skin sensitisation**
   no data available

   **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: Not available
   To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**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

SECTION 13: Disposal considerations
13.1 Waste treatment methods
   Product
   Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material
   with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
   Contaminated packaging
   Dispose of as unused product.

SECTION 14: Transport information
14.1 UN number
   ADR/RID: -  IMDG: -  IATA: -
14.2 UN proper shipping name
   ADR/RID: Not dangerous goods
   IMDG: Not dangerous goods
   IATA: Not dangerous goods
14.3 Transport hazard class(es)
   ADR/RID: -  IMDG: -  IATA: -
14.4 Packaging group
   ADR/RID: -  IMDG: -  IATA: -
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. 1907/2006.
   15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
      no data available
   15.2 Chemical Safety Assessment
      For this product a chemical safety assessment was not carried out

SECTION 16: Other information
   Full text of H-statements referred to under sections 2 and 3.
   Acute Tox.  Acute toxicity
   Eye Dam.  Serious eye damage
   H302  Harmful if swallowed.
   H318  Causes serious eye damage.
   Full text of R-phrases referred to under sections 2 and 3
   Xn  Harmful
   R22  Harmful if swallowed.
   R41  Risk of serious damage to eyes.

Further information
   The above information is believed to be correct but does not purport to be all inclusive and shall
   be used only as a guide. 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. It does
   not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its
   Affiliates shall not be held liable for any damage resulting from handling or from contact with the
   above product. See www.cdhfinechemical.com for additional terms and conditions of sale.