

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product:**Product code:** E7174**Name of material:** Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate**Use of the substance/preparation:**

Analytical chemistry, sequestering agent.

2. Composition/information on ingredients

Identification and amount of the components:

Synonyms: Edetic acid disodium salt. Disodium dihydrogen ethylenediaminetetraacetate

CAS: 6381-92-6

Molecular weight: 372.24 g/mol

EC number: 205-358-3

Formula: C₁₀H₁₄N₂Na₂O₈·2H₂O

3. Hazards identification

Harmful if swallowed.

4. First aid measures

After inhalation: Fresh air.**After skin contact:** Wash off with plenty of water. Remove contaminated clothing.**After ingestion:** Plenty of water to drink. Summon doctor.**After eye contact:** Rinse out with water.

5. Fire-fighting measures

Suitable extinguishing media: Water, CO₂, foam, powder.**Special risks:** Combustible. In the event of fire: development of hazardous vapours possible.**Special protective equipment for fire fighting:** Do not stay in dangerous zone without self-contained breathing apparatus.**Further information:** Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Person-related precautionary measures: Avoid inhalation of dusts.**Environmental precautions:** Do not allow to enter sewerage system.**Procedures for cleaning / absorption:** Take up dry. Forward for disposal, clean up. Avoid generation of dusts.

7. Handling and storage

Handling: No further requirements.**Storage:** Store tightly closed and dry. Store at + 15°C to + 25°C.

8. Exposure controls/personal protection

Exposure controls:**Occupational exposure controls:** The personal protective equipment must be selected according to the working place, based on the concentration and amount of the dangerous substance. The supplier should indicate the stability of the personal protective equipment to chemical reagents.**Respiratory protection:** Required when dusts are generated.**Hand protection:** Required**Eye protection:** Required**Industrial hygiene:** Wash hands after working with substance.

9. Physical and chemical properties

General information:**Form:** Crystals**Colour:** White**Odour:** Odourless**Important health, safety and environmental information:****pH value (50 g/l H₂O, 20 °C):** 4 - 5**Boiling temperature:** --**Flash point:** --**Explosion limits (low):** --**Explosion limits (high):** ---**Vapour pressure:** --**Density (20 °C):** --**Solubility in water: (20 °C):** 100 g/l**Viscosity:** --**Refractive index:** --**Melting temperature:** 252 °C (decomposes)**Ignition temperature:** --

10. Stability and reactivity

Conditions to be avoided: Strong heating.**Substances to be avoided:** Strong oxidizing agents, aluminium, nickel, zinc, copper, alloys (copper).**Hazardous decomposition products:** No information available.**Further information:** Releases water of crystallization when heated.

11. Toxicological information

Acute toxicity:**LD₅₀ (oral, rat):** 2000 mg/kg**Further toxicological information:****After eye contact:** Slight irritations.**After ingestion:** Slow absorption, disturbed electrolyte balance.**Further information:**

Further hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Ecotoxic effects:**Fish toxicity:** L. macrochirus CL₅₀ : 159 mg/l /96h. (Anhydrous substance)**Bacterial toxicity:** Ps. putida EC₅₀: 56 mg/l/8h. (Anhydrous substance)**Persistence and degradability:** Biological degradability: low**Further ecologic data:**

Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Product: There are no uniform EU Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EU member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.**Packaging:** Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC Directives

Symbol: Xn (Harmful)

R-phrases: 22 Harmful if swallowed.

S-phrases: 46 If swallowed seek medical advice immediately and show this container or label

EC-Index-No: --

16. Other information

Reason for the revision: General update.

Date: 20/3/2011

No warranty, expressed or implied for a particular purpose or otherwise is made, except the products herein discussed comply to the chemical description on the labels. Buyer assumes risks of the use, storage and handling. Producer or distributors shall not be liable for any incidental or consequential damages arising directly or indirectly in connection with the purchase, use, storage or handling of this product. The information contained herein is, to the best of our knowledge, true and accurate. However, all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. We disclaim any liability incurred in connection with the use of these data or suggestions.