

**Health & Safety data sheet**  
**According to EC Directive 91/155/EC**

Date of issue: 21 January 2008

**SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY**

**Product name:**

- Ammonia Reagent 1 for Fresh Water

**Application:**

- Determination of ammonia in fresh water samples

**Manufacturer identification:** Hanna Instruments Italia s.r.l.  
 Viale delle Industrie, 12/A  
 35010 Villafranca Padovana, Italy  
 tel.: +39-049-9070211

**Emergency Telephone n. °:** +39-02-66101029  
 CENTRO ANTIVELENI  
 OSPEDALE NIGUARDA (MI) - ITALY

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

<b>NAME (EC directives)</b>	<b>EC-Index-No.</b>	<b>CAS No.</b>	<b>LABELLING (EC directives)</b>	<b>CONTENT</b>
Ethylenedinitrilo-tetracetic acid disodium salt	NA	6381-92-6	Xn R22-36/37/38	≥1% - < 10%

**SECTION 3 - HAZARD IDENTIFICATION**

The concentration of the hazardous ingredient is below the limits of classification: a classification according to categories of danger as specified in directive 67/548/EC is not required.  
 Risk cannot be excluded if the product is handled improperly.

**SECTION 4 - FIRST AID MEASURES**

Remove contaminated, soaked clothing immediately and dispose of safely.

- **After inhalation** : fresh air.
- **After skin contact** : wash off with plenty of water.
- **After eye contact** : rinse out with water.
- **After swallowing** : wash out mouth thoroughly with water and give plenty of water to drink. In severe cases obtain medical attention.

**SECTION 5 – FIRE-FIGHTING MEASURES**

- **Suitable extinguishing media**  
 - water spray, foam, dry powder or carbon dioxide.
- **Special risks:**  
 - NA
- **Special protective equipment for fire fighting:**  
 - do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.
- **Additional information:**  
 - Non-combustible.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

- **Personal precautions:**  
 - do not inhale vapors. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.
- **Environmental precautions:**  
 - do not discharge into the drains/surface waters/groundwaters.

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• **Additional notes:**

- if local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent. For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

**SECTION 7 - HANDLING AND STORAGE**

- **Handling:**
  - cannot be stored indefinitely.
  - accessible only for authorized persons.
- **Storage:**
  - tightly closed. Store at room temperature (+15 to +25 °C recommended). Protect from light and moisture.

**SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

- **Personal protective equipment:**
  - as appropriate to quantity handled.
- **Respiratory protection:**
  - required when vapors/aerosols are generated. Work under hood.
- **Protective gloves:**
  - rubber or plastic
- **Eye protection:**
  - goggles or face mask

**SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES**

- **appearance and odor** : liquid, odorless
- **solubility in water** : Soluble
- **melting point** : NA
- **explosion limits** : NA
- **pH value at 20°C** : ~ 4.5
- **boiling point** : NA
- **ignition temperature** : NA
- **flash point** : NA
- **density at 20°C** : 1.03 g/cm<sup>3</sup>

**SECTION 10 - STABILITY AND REACTIVITY**

- **Conditions to be avoided:**
  - strong heating.
- **Substances to be avoided:**
  - the generally known reaction partners of water.
- **Hazardous decomposition products:**
  - in the event of fire: see section 5.
- **Further information:**
  - stable in the recommended storage conditions.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Quantitative data on the toxicity of this product are not available.

APPLICABLE TO PARTIAL COMPONENT(S):

- **Toxicological data** : - Ethylenedinitrilotetraacetic acid disodium salt:  
*acute toxicity:* LD<sub>50</sub> (oral, rat): 2000 mg/Kg.
- **In case of inhalation** : slight irritations.
- **In case of skin contact** : slight irritations.
- **In case of eye contact** : slight irritations.
- **In case of ingestion** : disturbed electrolyte balance, severe irritations in esophagus and stomach, bloody vomiting. After absorption in large amounts: drop in blood pressure, paralysis symptoms, agitation.
- **Further data** : Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

**SECTION 12 - ECOLOGICAL INFORMATION**

- **Ecotoxic effect** : quantitative data on the ecological effect of this product are not available.

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- **Further ecological data** : no ecological problems are to be expected when the product is handled and used with due care and attention.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

- **Waste disposal:**
  - chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice.
  - handle contaminated packaging in the same way as the substance itself.

**SECTION 14 - TRANSPORT INFORMATION**

- **Land transport**                   ADR/RID    : 9/UN 3316/PGII  
  Name        : CHEMICAL KIT
- **Sea transport**                   IMDG       : 9/UN 3316/PGII  
  Name       : CHEMICAL KIT
- **Air transport**                   ICAO/IATA  : 9/UN 3316/PGII  
  Name       : CHEMICAL KIT

These transport data apply to the entire pack!

**SECTION 15 - REGULATORY INFORMATION****Labeling according to EC Directives:**

Symbol:                               -  
R-phrases :                           -  
S-phrases :                           -  
Contains :                             -

**SECTION 16 - OTHER INFORMATION**

- **Supersedes edition of**       : June 2002
- **Reason for revision**         : general update
- **Legend**                         : NA Not applicable  
  ND Not determined

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.