

### Health & Safety data sheets

#### SECTION 1 - IDENTIFICATION OF PREPARATION

**Product name:**

- pH/Redox Cleaning Solution

**Cat. No. :**

- HI7061

**Application:**

- Cleaning solution for pH/redox electrodes

**Manufacturer  
identification:**

HANNA INSTRUMENTS  
V.le delle Industrie 12  
Ronchi di Villafranca  
PADOVA ITALY

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

**Chemical characterization:**

- Solution in water

**Chemical composition:**

- Hydrochloric acid: < 0.1%
- Symbol: **Xi**  
R-phrases: **R36/37/38**  
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#### SECTION 3 - HAZARD IDENTIFICATION

Irritating to eyes, respiratory system and skin.

#### SECTION 4- FIRST AID MEASURES

**Eye contact:**

- Wash with plenty of water for at least 10 minutes
- OBTAIN MEDICAL ATTENTION if irritation persists.

**Skin contact:**

- Wash exposed area with soap and water.
- OBTAIN MEDICAL ATTENTION if irritation develops.

**Ingestion:**

- Give large quantities of water immediately to dilute the acid
- Induce vomiting
- OBTAIN MEDICAL ATTENTION

**Inhalation:**

- N/A

#### SECTION 5 - FIRE FIGHTING MEASURES

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**Special risks:**

- May react with common metals to emit flammable hydrogen gas.

**Fire extinguisher:**

- Water, carbon dioxide, foam or dry chemical

**Special fire fighting precautions:**

- None

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**In case of accidental spill or release:**

- Wear appropriate protective clothing and gloves
- Neutralize spill with sodium bicarbonate

#### SECTION 7- HANDLING AND STORAGE

**Handling:**

- Under no circumstances eat or drink while handling this material
- Wash hands and face after working with material
- Contaminated clothing should be removed and washed before re-use

**Storage:**

- Store at room temperature (@ 15-25°C)
- Protect from direct sunlight
- Keep container closed
- Keep away from children

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

As appropriate to quantity handled

**Respiratory protection:**

- Fume hood

**Protective gloves:**

- Rubber or plastic

**Eye protection:**

- Goggles/face shield

#### SECTION 9- PHYSICAL/CHEMICAL PROPERTIES

**Appearance and odor:**

- Clear and colorless liquid
- Odorless

**Water reactivity:**

- Non-reactive

**Solubility in water:**

- Miscible in any proportion

**Melting point:**

- Unknown

**Boiling point:**

- > 100 C°

#### SECTION 10- STABILITY AND REACTIVITY

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**Stability:**

- Stable

**Substances and conditions to be avoided:**

- Heat; heating may increase the rate of release of hydrogen chloride gas
- Metals, strong oxidizers

#### SECTION 11- TOXICOLOGICAL INFORMATION

**In case of ingestion:**

- Corrosion of mucous membranes, esophagus, stomach, dysphagia, nausea, vomiting, intense thirst, diarrhea, circulatory collapse and death.

**In case of inhalation:**

- Coughing, choking, inflammation and ulceration of respiratory tract.

#### SECTION 12- ECOLOGICAL INFORMATION

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention

#### SECTION 13- DISPOSAL CONSIDERATIONS

**Waste disposal:**

- Chemicals are generally classified as special waste and thus covered by local regulations. Contact authorities or disposal companies for advice.
- In compliance with current regulations.

#### SECTION 14- TRANSPORT INFORMATION

UN-No.: UN1789

IMDG class: NR

IMO: NR

Packaging group:

IATA: NR

Packaging group:

Correct technical name: Not-Restricted

ADR/RID: NR

#### SECTION 15- REGULATORY INFORMATION

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#### **Labeling according to EEC directives:**

Symbol: **Xi** Irritant

R-phrases: 36/37/38 Irritant for eyes, skin, respiratory tract.

S-phrases: S26-45 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention. In case of accident seek medical advice immediately, if you feel unwell. Show label when possible.

#### **SECTION 16- OTHER INFORMATION**

Emergency telephone number 0039-49-9070211

23 July 1997