

**HANNA instruments**

HI 7022 470 mV ORP Solution

**Health & Safety data sheets**SECTION 1 - IDENTIFICATION OF PREPARATION**Product name:**

- 470 mV ORP Solution

**Code No. :**

- HI 7022

**Application:**

- ORP solution for Gold and Platinum 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:**

- Sulfuric Acid (CAS No.: 7664-93-9, EEC No.:231-639-5) 5%  
[C, R35; Xi, R36/38 if  
5%≤ weight/weight % <15%]

SECTION 3 - HAZARD IDENTIFICATION

Irritating to eyes and skin

SECTION 4- FIRST AID MEASURES**Eye contact:**

- Wash thoroughly with plenty of water.  
OBTAIN MEDICAL ATTENTION

**Inhalation:**

- Remove from exposure, rest and keep warm.
- In severe cases OBTAIN MEDICAL ATTENTION

**Ingestion:**

- Wash out mouth thoroughly with water and give plenty of water to drink.  
OBTAIN MEDICAL ATTENTION

**Skin contact:**

- Wash with plenty of water. Remove contaminated clothing and wash before re-use. Unless contact has been slight  
OBTAIN MEDICAL ATTENTION

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## Health & Safety data sheets

### SECTION 5 - FIRE FIGHTING MEASURES

**Special risks:**

- May evolve toxic fumes in fire

**Fire extinguisher:**

- N/A

**Special fire precautions:**

- None

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

- Wear suitable protective clothing.
- If local regulations permit, mop up cautiously 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.

### SECTION 7- HANDLING AND STORAGE

**Handling:**

- Do not eat or drink while handling this material
- Wash hands and face after working with material

**Storage:**

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

### SECTION 8- EXPOSURE CONTROL/PERSONAL PROTECTION

As appropriate to quantity handled

**Respiratory protection:**

- Self-contained breathing apparatus
- Fume hood

**Protective gloves:**

- Rubber or plastic

**Eye protection:**

- Goggles or face-shield

### SECTION 9- PHYSICAL/CHEMICAL PROPERTIES

**Appearance and odor:**

- Light yellow liquid
- Odorless

**Water reactivity:**

- No data

**Solubility in water:**

- Miscible in all proportions

**Melting point:**

- Not determined

**Boiling point:**

- Not determined

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## Health & Safety data sheets

### SECTION 10- STABILITY AND REACTIVITY

**Stability:**

- Stable

**Substances and conditions to be avoided:**

- Metals, metal alloys, bases, acids, combustible substances, organic solvents, halogen-halogen compounds, permanganates, peroxides

**Hazardous decomposition compounds:**

- Sulfur oxides

### SECTION 11- TOXICOLOGICAL INFORMATION

**In case of eye contact:**

- Severe irritation

**In case of skin contact:**

- Irritation

**In case of inhalation:**

- Irritation of mucous membranes, coughing and dyspnoea

**In case of ingestion:**

- Irritation of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract

### SECTION 12- ECOLOGICAL INFORMATION

- Do not allow to enter drinking water supplies, wastewater or soil! Harmful effect due to pH shift.

### SECTION 13- DISPOSAL CONSIDERATIONS

**Waste disposal:**

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

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### SECTION 14- TRANSPORT INFORMATION

UN-No.: 2796                      IMDG class: 8  
IMO: 8/2796                      Packaging group: II  
IATA: 2796                      Packaging group: II

Correct technical name: SULFURIC ACID (with not more than 51% acid)  
ADR/RID: 8,1' (b)

### SECTION 15- REGULATORY INFORMATION

#### Labeling according to EEC directives:

Symbol: Xi                      **Irritant**

R-phrases:                      *Irritating to eyes and skin.*  
R36/38

S-phrases:                      *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Never add water to this product. Wear suitable protective clothing.*  
S26-30-36

### SECTION 16- OTHER INFORMATION

Emergency telephone number 0039-049-9070211

last rev. May 2005

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