

### Health & Safety data sheets

#### SECTION 1 - IDENTIFICATION OF PREPARATION

**Product name:**

- Oxidizing pretreatment Solution

**Cat. No. :**

- HI7092

**Application:**

- Oxidizing pretreatment solution for ORP 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:**

- Sodium hypochlorite: <1%
- Hydrochloric acid: <1%

#### SECTION 3 - HAZARD IDENTIFICATION

Irritant.

#### SECTION 4- FIRST AID MEASURES

**Eye contact:**

- Irrigate thoroughly with water. If discomfort persists obtain medical attention.

**Skin contact:**

- Wash off thoroughly with water.
- Remove contaminated clothing and wash before re-use.

**Ingestion:**

- Wash out mouth thoroughly with water and give plenty of water to drink. In severe cases obtain medical attention.

**Inhalation:**

- Remove from exposure
- Rest and keep warm

# HANNA instruments

## HI 7092 Oxidizing Pretreatment Solution

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#### SECTION 5 - FIRE FIGHTING MEASURES

**Special risks:**

- May evolve toxic fumes if heated.

**Fire extinguisher:**

- N/A

**Special fire fighting precautions:**

- None

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

- Spread liberally sodium bicarbonate over the spillage.
- 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

#### SECTION 7- HANDLING AND STORAGE

**Handling:**

- Under no circumstances eat or drink while handling this material
- Wash hands and face after working with material

**Storage:**

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

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

As appropriate to quantity handled:

**Respiratory protection:**

- Self contained breathing apparatus

**Protective gloves:**

- Rubber or plastic

**Eye protection:**

- Goggles/face shield

#### SECTION 9- PHYSICAL/CHEMICAL PROPERTIES

**Appearance and odor:**

- Colorless
- Odorless

**Water reactivity:**

- Gives an acidic pH value (<1)

**Solubility in water:**

- Miscible in any proportion

**Melting point:**

- N/A

**Boiling point:**

- N/A

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#### SECTION 10- STABILITY AND REACTIVITY

**Stability:**

- Stable

**Substances to be avoided:**

- Acids (formation of chlorine), amines, alcohols, nitrites, oxidizing agents, alkali metals, strong bases.

#### SECTION 11- TOXICOLOGICAL INFORMATION

**In case of ingestion:**

- Damage to mouth, esophagus, gastrointestinal tract. Risk of perforation in the esophagus and stomach.

**In case of inhalation:**

- Irritation of mucous membranes, coughing, and dyspnoea.

**In case of skin contact:**

- Irritation

**In case of eye contact:**

- Severe irritation.

- **Further data:**

LD50 (oral-rat) = N/A

No evidence of mutagenic or teratogenic effects. No evidence of carcinogenic properties.

#### SECTION 12- ECOLOGICAL INFORMATION

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention. Toxic for aquatic organisms: harmful effect due to pH shift.

#### SECTION 13- DISPOSAL CONSIDERATIONS

**Waste disposal:**

- Chemical residues 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.:

IMDG class: NR

IMO: NR

Packaging group:

IATA: NR

Packaging group:

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