

Health & Safety data sheets

SECTION 1 - IDENTIFICATION OF PREPARATION

Product name:

- Reducing pretreatment Solution

Cat. No. :

- HI7091

Application:

- Reducing 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:

- Ferrous Sulfate(EEC No.: 231-753-5): < 3%
- Sulfuric Acid (EEC No.: 231-639-5): <1%

SECTION 3 - HAZARD IDENTIFICATION

Harmful if swallowed.

SECTION 4- FIRST AID MEASURES

Eye contact:

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

Skin contact:

- Wash off thoroughly with soap and 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:

- N/A

HANNA instruments

HI 7091 Reducing Pretreatment Solution

Health & Safety data sheets

SECTION 5 - FIRE FIGHTING MEASURES

Special risks:

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

Fire extinguisher:

- Water, carbon dioxide, foams or dry chemicals.

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:

- Not applicable

Protective gloves:

- Rubber or plastic

Eye protection:

- Goggles/face shield

SECTION 9- PHYSICAL/CHEMICAL PROPERTIES

Appearance and odor:

- Light green liquid
- 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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Health & Safety data sheets

SECTION 10- STABILITY AND REACTIVITY

Stability:

- Stable

SECTION 11- TOXICOLOGICAL INFORMATION

In case of ingestion:

- After ingestion: irritation of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract, vomiting and diarrhea.

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. 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:

Correct technical name: Not-Restricted

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Health & Safety data sheets

ADR/RID: NR

Health & Safety data sheets

SECTION 15- REGULATORY INFORMATION

Labeling according to EEC directives:

Symbol: **Xi, Xn**

Irritant, Harmful

R-phrases: 22-
36/38-36/37/38

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

S-phrases: 26-30-
36-45

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. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 16- OTHER INFORMATION

Emergency telephone number 0039-49-9070211

23 October 1997