

Safety Data Sheet

According to Regulation (EC) No. 1907/2006
OSHA Regulation 29 CFR 1910.1200
Canadian Regulation SOR/88-66

Revision Date: 2012-06-01
Reason for Revision: Reviewed Only

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 93735C-0 Fixing Reagent

Application: Determination of Hardness in Water Samples

Company Information (USA):

Hanna Instruments, Inc.
584 Park East Dr, Woonsocket, Rhode Island, USA 02895

Technical Service Contact Information:

1-800-426-6287 (8:30AM - 5:00PM ET)
+1-401-766-4260 (8:30AM - 5:00PM ET)

USA Emergency Contact Information:

1-800-424-9300 (Chemtrec 24Hr. Emergency)

International Emergency Contact Information:

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

E-mail Address:

tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

Irritating to eyes, respiratory system and skin.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: EDTA Tetrasodium Salt Dihydrate

EC-No.: 200-573-9

CAS-No.: 10378-23-1

Hazard: Xi

Phrases: R: 36/37/38

Content: > 40% - < 60%

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Give artificial respiration if victim is not breathing. Give oxygen if breathing is difficult.

After Skin Contact: Flush affected area with copious amounts of water for at least 15 minutes.

After Eye Contact: Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

After Swallowing: Make victim drink plenty of water, induce vomiting, call in physician.

General Information: Remove contaminated, soaked clothing immediately and dispose of safely.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam

Special Risks:

Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: Nitrogen Oxides

Special Protective Equipment:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional Information:

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid substance contact. Avoid generation of dusts; do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Environmental Precautions:

Do not discharge into the drains/surface waters/groundwater.

Additional Notes:

Take up dry. Clean up affected area and dispose according to local regulation.

SECTION 7: HANDLING AND STORAGE

Handling:

Do not breathe dust.

Storage:

Store at room temperature (+15°C to +25°C).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering:

Safety shower and eye wash.

Personal Protective Equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be determined with the respective supplier. As appropriate to quantity handled.

Respiratory Protection:

Required when dusts are generated.

Protective Gloves:

Compatible chemical-resistant gloves

Eye Protection:

Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Application of skin-protective barrier cream recommended. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: White powder

Odor: Odorless

Density at 20°C: ND

Melting Point: ND

Boiling Point: NA

Solubility: Soluble

pH at 20°C: 10.6 at 10 g/L in water

Explosion Limit: NA

Flash Point: NA

Thermal Decomp.: NA

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

Toxic gases: See section 5.

Substances to be Avoided:

Oxidizing agents

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

Potential Health Effects:

- Inhalation:** Irritations of the mucous membranes, coughing, and dyspnoea.
Skin Contact: Irritations.
Eye Contact: Irritations.
Ingestion: Irritations of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.
Further Data: Further hazardous properties cannot be excluded. The product should be handled with the usual care when dealing with chemicals.

Component Toxicity**Acute Toxicity:**

Not Available

Chronic Toxicity:

Not Available

Additional Data:

APPLICABLE TO PARTIAL COMPONENT:

The following applies to EDTA tetrasodium salt dihydrate – as the pure substance:

Acute toxicity

LD 50 (oral, rat): 1000-2000 mg/kg.

Specific symptoms in animal studies:

Eye irritation test (rabbit): Irritations.

Skin irritation test (rabbit): No irritation.

SECTION 12: ECOLOGICAL INFORMATION

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

APPLICABLE TO PARTIAL COMPONENT:

The following applies to EDTA tetrasodium salt dihydrate – as the pure substance:

Ecotoxic effects:

Biological effects:

Harmful effect on aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Fish toxicity: *L. idus* LC 50 : >500 mg/L /96 h.Daphnia toxicity: *Daphnia magna* EC 50 : >100 mg/L /24 h.

Algal toxicity: algae IC 50 : 10-100 mg/L /72 h.

Further Data: Do not allow to enter waters, waste waters, or soil!**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: TRANSPORTATION INFORMATION****Land:**

Not subject to transport regulations.

Sea:

Not subject to transport regulations.

Air:

Not subject to transport regulations.

SECTION 15: REGULATORY INFORMATION**Labeling according to EC Directives:****Symbol:** Xi: Irritant**R-phrases:** 36/37/38: Irritating to eyes, respiratory system and skin.**S-phrases:** 61: Avoid release to the environment. Refer to special instructions/Safety data sheets.**Contains:** EDTA tetrasodium salt dihydrate

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SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3

36/37/38: Irritating to eyes, respiratory system and skin.

Revision Information

Revision Date: 2012-06-01

Supersedes edition of: 2009-06-10

Reason for revision: Reviewed Only

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.