HI 93740C-0
Nickel Low Range Reagent C

Safety Data Sheet

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

Revision Date: 2013-01-23
Reason for Revision: Section 2 and 3 Updated

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 93740C-0 Nickel Low Range Reagent C

Application: Determination of Nickel 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

Harmful if swallowed. Risk of serious damage to eyes.

According to Directives 67/548/EEC and 1999/45/EC:

Symbol: Xn: Harmful
R-phrases: 22-41: Harmful if swallowed. Risk of serious damage to eyes.
S-phrases: 61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
Ethylenediaminetetraacetic acid tetrasodium salt dihydrate	200-573-9	10378-23-1	Acute Tox. 4 Eye Dam. 1 Xn	H302, H318 R: 22-41	> 30% - < 50%

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. If victim is not breathing give artificial respiration. 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: Not available

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.

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.

Respiratory Protection:	***Protective Gloves:***	***Eye Protection:***
Required when dusts are generated.	Compatible chemical-resistant gloves	Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Application of skin-protectve 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 Decomposition Products:

Toxic gases: See section 5.

Hazardous Polymerization:

Will not occur.

Substances to be Avoided:

Oxidizing agents

Further Information:

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

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.
Algeal 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

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.
Complies with European Council Directives 67/548/EEC and 1999/45/EC.
Complies with OSHA Regulation 29 CFR 1910.1200.
Complies with Canadian Regulation SOR/88-66

SECTION 16: OTHER INFORMATION

Text of phrases under Section 3

R22: Harmful if swallowed.
R41: Risk of serious damage to eyes.
H302: Harmful if swallowed.
H318: Causes serious eye damage.

Revision Information

Revision Date:	2013-01-23
Supersedes edition of:	2013-01-08
Reason for revision:	Section 2 and 3 Updated
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.