

Revision Date: 2012-11-09

Reason for Revision: Updated hazard symbols and risk phrases.

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 93708-0 Nitrite High Range Reagent

Additional Product Codes: HI 93708-01
HI 93708-03

Application: Determination of Nitrite 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. Irritating to eyes and skin.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: Iron Sulfate Heptahydrate

EC-No.: 231-753-5

CAS-No.: 7782-63-0

Hazard: Xn, Xi

Phrases: R: 22-36/38

Content: > 50% - < 70%

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air.

After Skin Contact: Wash affected area with plenty of water. Remove contaminated clothing.

After Eye Contact: Rinse out with plenty of water. If pain persists, summon medical advice.

After Swallowing: Drink plenty of water, induce vomiting. Obtain medical attention.

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

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Foam, Powder, Dry Sand, Water

Special Risks:

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

Special Protective Equipment:

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

Additional Information:

Product itself is non combustible. Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear protective clothes and gloves.

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:

Avoid generation of dusts. Do not inhale substance.
 Accessible only for authorized persons.

Storage:

Store at room temperature (+15 to +25 °C). Tightly closed in a dry and well-ventilated place. Moisture sensitive.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

Respiratory Protection:

Required when dusts are generated. Work under hood.

Protective Gloves:

Rubber or plastic

Eye Protection:

Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Light green powder	Odor:	Odorless	Density at 20°C:	ND
Melting Point:	ND	Boiling Point:	NA	Solubility:	Soluble
pH at 20°C:	1.9 at 10 g/L in water	Explosion Limit:	NA	Flash Point:	NA
Thermal Decomp.:	NA				

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Moisture.

Hazardous Polymerization:

Will not occur.

Further Information:

Light sensitive, hygroscopic. Releases water of crystallization if heated.

Hazardous Decomposition Products:

In the event of fire: See section 5.

Substances to be Avoided:

Bases, auric salts, silver salts, tannin

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

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

Potential Health Effects:

- Inhalation:** Irritations. At high concentrations: other possible symptoms are coughing, dyspnoea.
Skin Contact: Irritations.
Eye Contact: Irritations.
Ingestion: Nausea, pain, diarrhea, vomiting, burns in esophagus and stomach, drop in blood pressure.
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 MAIN COMPONENT:
Toxicological data: iron sulfate: acute toxicity:
LD50 (oral, rat): 319 mg/Kg (anhydrous substance).

SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the ecological effect of this product is not available.

Biological effect:

APPLICABLE TO MAIN COMPONENT: iron sulfate:

Fish toxicity: *P. reticulata* LC50: 925 mg/L/96 h (anhydrous substance)

Daphnia toxicity: *Daphnia Magna* EC50: 152 mg/L/48 h (anhydrous substance)

Bacterial toxicity: *Pseudomonas fluorescens* EC0: 100 mg/L/24 h (anhydrous substance)

Further Data: The following applies to dissolved iron compounds in general: fish toxicity as from 0.9 mg/L at pH 6.5-7.5; lethal as from 1 mg/L at pH 5.5-6.7; 50 mg/L iron upper limit for fish life. When iron ions flocculate in alkaline medium, mechanical damage occurs in aquatic organisms.

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: Xn: Harmful
Xi: Irritant

R-phrases: 22: Harmful if swallowed.
36/38: Irritating to eyes and skin.

S-phrases: 22-24/25: Do not breathe dust. Avoid contact with skin and eyes.

Contains: Iron sulfate heptahydrate

Safety Data Sheet

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

SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3

22: Harmful if swallowed.
36/38: Irritating to eyes and skin.

Revision Information

Revision Date: 2012-11-09
Supersedes edition of: 2012-06-01
Reason for revision: Updated hazard symbols and risk phrases.

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.