

Revision Date: 2012-07-06
Reason for Revision: (1st edition)

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 708-0 Nitrite High Range Reagent

Additional Product Codes: HI 708-25

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

Causes severe skin burns and eye damage.

According to Regulation (EC) No. 1272/2008:

Classification: Skin Corrosive (Category 1B)

Signal Word: **Danger**

Pictograms:



Hazard Statements: H314: Causes severe skin burns and eye damage.

Precaution Statements: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Symbol: C: Corrosive

R-phrases: 34: Causes burns.

S-phrases: 26-36/37/39-45: In case of eye contact, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
Potassium disulfate	232-216-8	7790-62-7	Skin Corr. 1B C	H314 R: 34	> 25% - < 50%
Iron(II) sulfate heptahydrate	231-753-5	7782-63-0	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Xn, Xi	H302, H315, H319 R: 22-36/38	> 50% - < 75%

Safety Data Sheet

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

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	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, gold 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: Burns.

Eye Contact: Burns, corneal lesion.

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.

Safety Data Sheet

According to Regulation (EC) No. 1907/2006
 OSHA Regulation 29 CFR 1910.1200
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SECTION 14: TRANSPORTATION INFORMATION

	Land (ADR/RID):	Sea (IMDG):	Air (ICAO/IATA):
UN No.:	3260	3260	3260
Proper Shipping Name:	Corrosive solid, acidic, inorganic, n.o.s. (potassium disulfate mixture)	Corrosive solid, acidic, inorganic, n.o.s. (potassium disulfate mixture)	Corrosive solid, acidic, inorganic, n.o.s. (potassium disulfate mixture)
Class (Sub Risk):	8	8	8
Packing Group:	II	II	II

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.
 R34: Causes burns.
 R36/38: Irritating to eyes and skin.
 H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.

Revision Information

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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.