

Revision Date: 2013-01-25
Reason for Revision: Regulation (EC) No. 1272/2008 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 93746-0 Iron Low Range Reagent Application: Determination of Iron in Water Samples Company Information (USA): Technical Service Contact Information: USA Emergency Contact Information: International Emergency Contact Information: E-mail Address:	Additional Product Codes: HI 93746-01 HI 93746-03 Hanna Instruments, Inc. 584 Park East Dr, Woonsocket, Rhode Island, USA 02895 1-800-426-6287 (8:30AM - 5:00PM ET) +1-401-766-4260 (8:30AM - 5:00PM ET) 1-800-424-9300 (Chemtrec 24Hr. Emergency) +1-703-527-3887 (Chemtrec 24Hr. Emergency) tech@hannainst.com
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SECTION 2: HAZARD IDENTIFICATION

Causes burns.

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

Classification: Skin Corrosion (Category 1B)

Signal Word: **Danger**

Pictograms:



Hazard Statements: H251: Self-heating; may catch fire.

H314: Causes severe skin burns and eye damage.

Precaution Statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.

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: 7-31-34: May cause fire. Contact with acids liberates toxic gas. Causes burns.

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

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	> 5% - < 20%
Sodium hydrosulfite	231-890-0	7775-14-6	Self-heat. 1 Acute Tox. 4 Xn	H251, H302, EUH031 R: 7-22-31	> 1% - < 10%

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Consult a doctor if feeling unwell.

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: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Foam, Powder, Dry Sand

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:

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid generation of dusts. Do not inhale dusts.

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. Keep away from sources of ignition and heat.

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 yellow powder

Odor: Slightly pungent

Density at 20°C: ND

Melting Point: NA (decomposition)

Boiling Point: NA

Solubility: Soluble

pH at 20°C: 3.0 at 5 g/L in water

Explosion Limit: NA

Flash Point: NA

Thermal Decomp.: NA

SECTION 10: STABILITY AND REACTIVITY**Conditions to be Avoided:**

Heating (risk of decomposition).

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

In the event of fire: See section 5.

Substances to be Avoided:

Acids, oxidizing agents, salts of oxyhalogenic acids

SECTION 11: TOXICOLOGICAL INFORMATION**Product Toxicity**

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

Potential Health Effects:

Inhalation: Irritations. Other possible symptoms are: coughing, dyspnoea.

Skin Contact: Irritations.

Eye Contact: Burns.

Ingestion: Nausea, pain, muscular weakness, diarrhea, bloody vomiting, disturbed electrolyte balance, burns in esophagus and stomach, collapse, respiratory paralysis.

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:

The following applies to Sodium hydrosulfite, as the pure substance:

Acute toxicity

LD50 (oral, rat): ~2500 mg/kg.

Specific symptoms in animal studies:

Eye irritation test (rabbit): Irritations (OECD 405).

Skin irritation test (rabbit): No irritation (OECD 404).

Subacute to chronic toxicity

Sensitization:

Experience in man: No skin-sensitizing effect.

Bacterial mutagenicity: Ames test: negative.

SECTION 12: ECOLOGICAL INFORMATION

Quantitative data on the toxicity of this product is not available.
APPLICABLE TO MAIN COMPONENT:
 The following applies to Sodium hydrosulfite, as the pure substance:
Biologic degradation:
 Methods for the determination of biodegradability are not applicable to inorganic substances.
Behavior in environmental compartments:
 log p(o/w): <-4.7 (calculated).
 No bioaccumulation is to be expected (log P(o/w) <1).
Ecotoxic effects:
Biological effects:
 Reacts with water to form toxic decomposition products.
 Fish toxicity: *L. idus* LC50: 46-68 mg/L /96 h.
 Daphnia toxicity: *Daphnia magna* EC50: 98 mg/L /48 h.
 Algal toxicity: *Desmodesmus subspicatus* IC50: 120 mg/L /72 h.
 Bacterial toxicity: *Ps. putida* EC50: 107 mg/L /17 h.
Further ecologic data:
 COD: 0.21 g/g.

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 (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

R7: May cause fire.
 R22: Harmful if swallowed.
 R31: Contact with acids liberates toxic gas.
 R34: Causes burns.
 H251: Self-heating; may catch fire.
 H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 EUH031: Contact with acids liberates toxic gas.

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.