



HI 93709B-0
Manganese High Range Reagent B.
Safety Data Sheet

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

Revision Date: 2012-05-21
Reason for Revision: Section 14 Updated

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 93709B-0 Manganese High Range Reagent B.

Application: Determination of Manganese 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

Contact with combustible material may cause fire. Irritating to eyes, respiratory system and skin.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: Potassium Periodate

EC-No.: 232-196-0

CAS-No.: 7790-21-8

Hazard: O, Xi

Phrases: R: 8-36/37/38

Content: > 50% - <75%

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. Summon eye specialist

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

General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

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

Special Risks:

Fire-promoting (oxidizing). Keep away from combustible materials and sources of ignition and heat. Beware of backfiring. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: Hydrogen Iodide, Iodine

Special Protective Equipment:

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

Additional Information:

NA

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid generation of dusts. Do not inhale dusts. Avoid substance contact. 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:

Accessible only for authorized persons.

Storage:

Store tightly closed and away from combustible materials and sources of ignition and heat. Protect from moisture.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection:

Required when dusts are generated.

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: White powder

Odor: Odorless

Density at 20°C: ND

Melting Point: ND

Boiling Point: ND

Solubility: ND

pH at 20°C: ND

Explosion Limit: ND

Flash Point: ND

Thermal Decomp.: ND

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Fire-promoting; strong oxidizing substance.

Hazardous Decomposition Products:

Toxic gases: See section 5.

Substances to be Avoided:

Combustible substances: risk of explosion!

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

Quantitative data on the toxicity of this product are not available. Applicable to partial component: the following applies to potassium periodate:

Potential Health Effects:

- Inhalation:** Irritation of the respiratory tract. Possibility of sensitization.
- Skin Contact:** Irritations. Possibility of sensitization.
- Eye Contact:** Irritations.
- Ingestion:** Risk of mucosal irritations, coughing, dyspnoea.
- Further Data:** Further hazardous properties cannot be excluded. The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

- | | |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <p>Acute Toxicity:
Not Available</p> <p>Additional Data:
Not Available</p> | <p>Chronic Toxicity:
Not Available</p> |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------|

SECTION 12: ECOLOGICAL INFORMATION

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

Further Data: No ecological problems are to be expected when this product is handled and used with due care and attention.

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.:	1479	1479	1479
Proper Shipping Name:	Oxidizing solid, n.o.s. (potassium periodate mixture)	Oxidizing solid, n.o.s. (potassium periodate mixture)	Oxidizing solid, n.o.s. (potassium periodate mixture)
Class (Sub Risk):	5.1	5.1	5.1
Packing Group:	II	II	II

SECTION 15: REGULATORY INFORMATION

Labeling according to EC Directives:

- Symbol:** O: Oxidizing
Xi: Irritant
- R-phrases:** 8-36/37/38: Contact with combustible material may cause fire. Irritating to eyes, respiratory system and skin.
- S-phrases:** 17-26-36: Keep away from combustible material. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

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SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3

8: Contact with combustible material may cause fire.
36/37/38: Irritating to eyes, respiratory system and skin.

Revision Information

Revision Date: 2012-05-21
Supersedes edition of: 2009-06-10
Reason for revision: Section 14 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.