

Safety Data Sheet

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

Revision Date: 2012-04-27
Reason for Revision: Section 14 Updated

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 93750B-0 Potassium Reagent B

Application: Determination of Potassium 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, respiratory system and skin.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: EDTA Tetrasodium Salt Dihydrate EDTA Disodium Salt Dihydrate Sodium Tetraphenyl Borate

EC-No.: 200-573-9 205-358-3 205-605-5

CAS-No.: 10378-23-1 6381-92-6 143-66-8

Hazard: Xi Xn Xn

Phrases: R: 36/37/38 R: 22-36/37/38 R: 22

Content: > 10% - < 25% > 50% - < 75% > 1% - < 10%

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Give artificial respiration if victim is not breathing. 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.

After Swallowing: Wash out mouth with water provided person is conscious. Call a physician immediately.

General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water Spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam

Special Risks:

Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: Carbon Monoxide, Carbon Dioxide, Boron 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.



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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: Storage:

Do not breathe dust. Do not get in eyes, on skin, on

clothing.

Store tightly closed at room temperature (+15°C to + 25°C).

Accessible only for authorized persons.

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. As appropriate to quantity handled

Respiratory Protection: Protective Gloves: Eye Protection:

Required when dusts are generated. Compatible chemical-resistant gloves Goggles or face mask

Industrial Hygiene:

Wash contaminated clothing. Application of skin-protectve barrier cream recommended. Wash hands and face 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: 6.1 at 10 g/L in water **Explosion Limit:** NA Flash Point: NA

Thermal Decomp.: NA

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided: Hazardous Decomposition Products:

Toxic gases: See section 5. Heating Substances to be Avoided: Hazardous Polymerization: Will not occur. Strong oxidizing agents

Further Information:

Not available



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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: Absorption. Disturbed electrolyte balance. Irritations of mucous membranes in the mouth, pharynx, esophagus and

gastrointestinal tract. Damage of kidneys.

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: Chronic Toxicity:

Not Available

Not Available

Additional Data:

APPLICABLE TO PARTIAL COMPONENT:

The following applies to EDTA disodium salt dihydrate – as the pure substance:

Acute toxicity

LD 50 (oral, rat): >2000 mg/kg (anhydrous substance).

Specific symptoms in animal studies:

Eye irritation test (rabbit): Irritations (calculated on the free acid). Skin irritation test (rabbit): No irritation (calculated on the free acid).

Subacute to chronic toxicity

Sensitization:

Sensitization test (guinea pig): No sensitizing effect.

Experience in man: May cause sensitization.

Bacterial mutagenicity: Salmonella typhimurium: negative. (anhydrous substance)

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. APPLICABLE TO PARTIAL COMPONENT:

The following applies to Sodium tetraphenyl borate – as the pure substance:

Acute toxicity

LD 50 (oral, rat): 288 mg/kg.



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SECTION 12: ECOLOGICAL INFORMATION

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

APPLICABLE TO PARTIAL COMPONENT:

The following applies to EDTA disodium salt dihydrate – as the pure substance:

Biologic degradation:

Slightly biodegradable.

Slightly eliminable (DOC reduction <20 %).

Ecotoxic effects:

Biological effects:

Harmful effect on aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Fish toxicity: P.reticulata LC 50: ~320 mg/L /96 h (anhydrous substance).

Bacterial toxicity: Ps.putida EC 50: 56 mg/L /8 h (anhydrous substance).

APPLICABLE TO PARTIAL COMPONENT:

The following applies to EDTA tetrasodium salt dihydrate – as the pure substance:

Ecotoxic effects: Biological effects:

Louis de l'esta

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.

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Sodium tetraphenyl borate – as the pure substance:

Ecotoxic effects:

Biological effects

Daphnia toxicity: Daphnia magna LC 50 : 32 mg/L /48 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: Sea: Air:

SECTION 15: REGULATORY INFORMATION

Labeling according to EC Directives:

Symbol: Xn: Harmful Xi: Irritant

R-phrases: 22-36/37/38: Harmful if swallowed. Irritating to eyes, respiratory system and skin.

S-phrases: 26-36: 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

Revision Information

Leaend

22: Harmful if swallowed. 36/37/38: Irritating to eyes, respiratory system **Revision Date:**

Reason for revision:

2012-04-27

NA: Not Applicable ND: Not Determined

and skin.

Supersedes edition of: 2009-06-10

Section 14 Updated

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.