



### HI 38035B-0 Calcium 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:** 2009-06-10

Reason for Revision: 29 CFR 1910.1200 and SOR/88-66 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 38035B-0 Calcium Reagent B

**Application:** Determination of Calcium 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 to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**SECTION 3: COMPOSITION AND COMPONENT INFORMATION** 

Component: Zinc Chloride

**EC-No.**: 231-592-0

CAS-No.: 7646-85-7

Hazard: C, N

Phrases: R: 22-34-50/53

**Content:** > 0.25% - < 2.5%

#### **SECTION 4:** FIRST AID MEASURES

After Inhalation: Remove to fresh air. Call a physician if breathing becomes difficult.

After Skin Contact: Wash affected area with water and soap.

After Eye Contact: Rinse out with plenty of water for at least 15 minutes. If pain persists, summon medical advice.

After Swallowing: Make victim drink plenty of water (if necessary several liters), avoid vomiting. Call in physician. Do not attempt to

neutralize.

General Information: Not available

#### **SECTION 5:** FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media:

Powder, Foam

#### Special Risks:

Non-combustible. Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire: Hydrochloric Acid

#### Special Protective Equipment:

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

#### Additional Information:

Prevent fire-fighting water from entering surface water or groundwater.



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#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### Personal Precautions:

Do not inhale vapors/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

#### **Environmental Precautions:**

Do not allow to enter the sewerage system.

#### Additional Notes:

Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation.

### **SECTION 7:** HANDLING AND STORAGE

Handling: Storage:

Avoid generation of vapors/aerosols. Do not inhale substance.

Tightly closed. In a well-ventilated place at +15 to +25 °C.

#### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Туре	Value	Source	Туре	Value	Source
Zinc Chloride					
TWA (8hr)	1 mg/m³ (fume)	Belgium	TWA (8hr)	1 mg/m³ (fume)	Canada (Ontario)
TWA (8hr)	1 mg/m³ (fume)	Canada (Quebec)	TWA (8hr)	1 mg/m³ (fume)	France
TWA (8hr)	1 mg/m³	Greece	TWA (8hr)	1 mg/m³ (fume)	Poland
TWA (8hr)	1 mg/m³ (fume)	Portugal	TWA (8hr)	1 mg/m³ (fume)	Spain
TWA (8hr)	1 mg/m³ (fume)	UK	TWA (8hr)	1 mg/m³ (fume)	USA (ACGIH)
TWA (8hr)	1 mg/m³ (fume)	USA (OSHA)			

#### 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.

Respiratory Protection: Protective Gloves: Eye Protection:

Required when vapors/aerosols are generated. Rubber or plastic Goggles or face mask

Industrial Hygiene:

Wash thoroughly after handling.

**SECTION 9:** PHYSICAL/CHEMICAL PROPERTIES

Appearance: Colorless solution Odor: Odorless Density at 20° C: 1.05 g/cm³ at 25°C

Melting Point:NABoiling Point:NDSolubility:SolublepH at 20° C:10-11 at 25°CExplosion Limit:NAFlash Point:NA

Thermal Decomp.: NA



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#### **SECTION 10:** STABILITY AND REACTIVITY

Conditions to be Avoided:

Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

In the event of fire: See section 5.

Substances to be Avoided:

Strong oxidizing agents

#### SECTION 11: TOXICOLOGICAL INFORMATION

#### **Product Toxicity**

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

Potential Health Effects:

Inhalation: Mucosal irritations, coughing, dyspnoea.

**Skin Contact:** Possibility of irritations. **Eye Contact:** Possibility of irritant effect.

Ingestion: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Further Data: Toxic effect on: kidneys. The product should be handled with the usual care when dealing with chemicals.

**Component Toxicity** 

Acute Toxicity: Chronic Toxicity:

Not Available

Zinc Chloride

LD50: Oral - Rat - 350 mg/kg

#### Additional Data:

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Zinc Chloride, as the pure substance:

Subacute to chronic toxicity

Mutagenicity (mammal cell test): chromosome aberration positive. (in vitro) (Lit.)

#### **SECTION 12: ECOLOGICAL INFORMATION**

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

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Zinc Chloride, as the pure substance:

Biologic degradation:

Methods for the determination of biodegradability are not applicable to inorganic substances.

Ecotoxic effects:

Biological effects:

Highly toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Hazard for drinking water supplies.

Fish toxicity: Br.rerio LC50: 38 mg/L /96 h (IUCLID).

Daphnia toxicity: Daphnia magna EC50: 0.33 mg/L /48 h (IUCLID).

Algeal toxicity: Selenastrum capricornutum IC0: 0.1 mg/L /96 h (OECD 201)

Bacterial toxicity: activated sludge EC50: 45 mg/L (referred to the cation) (IUCLID).

Further Data: Do not allow to enter waters, waste water, 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.



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**SECTION 14:** TRANSPORTATION INFORMATION

Air: Land: Sea:

Not subject to transport regulations Not subject to transport regulations Not subject to transport regulations

**SECTION 15: REGULATORY INFORMATION** 

Labeling according to EC Directives:

Symbol: Not applicable

R-phrases: 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: 61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

**SECTION 16: OTHER INFORMATION** 

Text of R-phrases under Section 3 Revision Information Legend

**Revision Date:** 22:Harmful if swallowed. 2009-06-10 NA: Not Applicable 34:Causes burns. ND: Not Determined Supersedes edition of: 2008-12-01

50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

Reason for revision: 29 CFR 1910.1200 and SOR/88-66 environment.

Compliance

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.