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HI 3895PH-0
pH Reagent

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 3895-pH pH Reagent

Additional Product Codes: HI 3895-PH

Application: Determination of pH in Soil (Extract) 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

Non-hazardous product as specified in Directives 67/548/EEC and 1999/45/EC.

Non-hazardous product as specified in OSHA Regulation 29 CFR 1910.1200.

Non-hazardous product as specified in Canadian Regulation SOR/88-66.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	Calcium Chloride Dihydrate	Barium Sulfate
EC-No.:	233-140-8	231-784-4
CAS-No.:	10043-52-4	7727-43-7
Hazard:	Xi	-
Phrases:	R: 36	-
Content:	> 1% - < 10%	> 40% - < 60%

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Call in physician.

After Skin Contact: Wash affected area with plenty of water. Immediately remove contaminated clothing.

After Eye Contact: Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call in ophthalmologist.

After Swallowing: Make victim drink plenty of water (if necessary several liters). Immediately call in physician.

General Information: Remove contaminated, soaked clothing immediately and dispose of safely.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Foam, Dry Powder, Carbon Dioxide

Special Risks:

Non-combustible. Development of hazardous combustion gases 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:

NA

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid substance contact. 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. Forward for disposal.

SECTION 7: HANDLING AND STORAGE

Handling:

Work under hood. Do not inhale substance. Avoid generation of dusts.

Storage:

Tightly closed. In a well ventilated place. Store at room temperature (+15 to +25 °C recommended).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Type	Value	Source	Type	Value	Source
Barium Sulfate					
TWA (8hr)	10 mg/m ³	Belgium	TWA (8hr)	0.5 mg/m ³ (total)	Canada (Ontario)
TWA (8hr)	10 mg/m ³ (total)	Canada (Quebec)	TWA (8hr)	10 mg/m ³	Portugal
TWA (8hr)	10 mg/m ³	Spain	TWA (8hr)	4 mg/m ³	UK
TWA (8hr)	10 mg/m ³	USA (ACGIH)	TWA (8hr)	15 mg/m ³ (total)	USA (OSHA)

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. Apply skin-protective barrier cream. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:	White powder	Odor:	Odorless	Density at 20° C:	NA
Melting Point:	ND	Boiling Point:	ND	Solubility:	Soluble
pH at 20° C:	8.12 @10 g/L	Explosion Limit:	NA	Flash Point:	NA
Thermal Decomp.:	NA				

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SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Heating and moisture.

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

No information available.

Substances to be Avoided:

No information available

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

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

Potential Health Effects:

Inhalation: Irritations symptoms in the respiratory tract.

Skin Contact: No irritations.

Eye Contact: Irritations.

Ingestion: Gastrointestinal complaints.

Further Data: 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 PARTIAL COMPONENT:

The following applies to Calcium chloride dihydrate – as the pure substance

Acute toxicity

LD50 (dermal, rat): 2630 mg/kg (anhydrous substance).

LD50 (oral, rat): 1000 mg/kg (anhydrous substance).

Specific symptoms in animal studies:

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

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

Subacute to chronic toxicity

Bacterial mutagenicity: Ames test: negative. (anhydrous substance)

SECTION 12: ECOLOGICAL INFORMATION

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

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Calcium chloride dihydrate – as the pure substance

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

Ecotoxic effects:

Biological effects:

Increases the hardness of water. A harmful effect of aquatic organisms is only to be expected at high concentrations.

Fish toxicity: *L. macrochirus* LC50: 10650 mg/L /96 h (anhydrous substance).

Daphnia toxicity: *Daphnia magna* EC50: 144 mg/L /48 h (anhydrous substance).

Algal toxicity: algae IC50: 3130 mg/L /120 h (anhydrous substance).

Bacterial toxicity: bacteria EC50: >100 mg/L (anhydrous substance).

Further Data: No ecological problems are to be expected when the 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.

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SECTION 14: TRANSPORTATION INFORMATION

Land:

Not subject to transport regulations

Sea:

Not subject to transport regulations

Air:

Not subject to transport regulations

SECTION 15: REGULATORY INFORMATION

Labeling according to EC Directives:

Non-hazardous according to Directives 67/548/EEC and 1999/45/EC.

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

SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3

36: Irritating to eyes.

Revision Information**Revision Date:**

2009-06-10

Supersedes edition of:

2008-12-01

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