

**Revision Date:** 2008-12-01

**Reason for Revision:** REACH Compliance and General Update

### **SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY**

**Product Name:** HI 93755-0 Alkalinity Reagent

**Additional Product Codes:** HI 93755-01  
HI 93755-03

**Application:** Determination of Alkalinity 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**

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

### **SECTION 3: COMPOSITION AND COMPONENT INFORMATION**

**Component:** Adipic Acid

**EC-No.:** 204-673-3

**CAS-No.:** 124-04-9

**Hazard:** Xi

**Phrases:** R: 36

**Content:** > 1% - < 10%

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

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

**After Skin Contact:** Wash effected 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:** Remove contaminated, soaked clothing immediately and dispose of safely.

### **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, Carbon Monoxide, Carbon Dioxide

**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.

**SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION****Ingredients:**

ADIPIC ACID  
EXPOSURE LIMITS – DENMARK  
Source Type Value  
OEL TWA 5 mg/m<sup>3</sup>

**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:**

Required when dusts are generated.  
Work under hood.

**Protective Gloves:**

Rubber or plastic

**Eye Protection:**

Goggles or face mask

**Industrial Hygiene:**

Wash thoroughly after handling. Remove and wash contaminated clothing promptly. Discard contaminated shoes.

**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:** 3.31 @ 10 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:**

Strong oxidizing agents

### **SECTION 11: TOXICOLOGICAL INFORMATION**

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

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Adipic acid – as the pure substance:

Acute toxicity

LD50, oral, rat: 5050 mg/Kg – calculated on the pure substance.

LC50, inhalation, rat: >7.7 mg/L/4h – calculated on the pure substance.

**In Case of Inhalation:** Slight mucosal irritations.

**In Case of Skin Contact:** Slight irritations.

**In Case of Eye Contact:** Irritations.

**In Case of Ingestion:** Irritations of mucus membrane in the mouth, pharynx esophagus and gastrointestinal tract.

**Further Data:** Further hazardous properties cannot be excluded. The product should be handled with the usual care when dealing with chemicals. Property of this product must be anticipated on the basis from the components of the preparation:

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

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

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Adipic acid – as the pure substance:

Ecotoxicological effects

Test Type: LC50 Fish, Species: Pimephales promelas (Fathead minnow), time: 96 h: value: 97 mg/L.

Test Type: EC50 Daphnia, Species: Daphnia magna, time: 48 h: value: 86 mg/L.

Biological effects:

Harmful effect due to pH shift.

Biologic degradation:

Biodegradation: 100% /28d. Readily biodegradable.

**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:**

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:**

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

**R-phrases:**

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

**Contains:**

**SECTION 16: OTHER INFORMATION**

***Text of R-phrases under Section 3***

36: Irritating to eyes.

***Revision Information***

**Revision Date:** 2008-12-01

**Supersedes edition of:** 2008-01-03

**Reason for revision:** REACH Compliance and General Update

***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.**