

# Safety Data Sheet

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

**Revision Date:** 2013-01-28  
**Reason for Revision:** Regulation (EC) No. 1272/2008 Compliance

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

**Product Name:** HI 93712B-0 Aluminum Reagent

**Application:** Determination of Aluminum 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

Causes serious eye damage. Causes skin irritation. May cause respiratory irritation.

**According to Regulation (EC) No. 1272/2008:**

**Classification:** Eye Damage (Category 1)  
Skin Irritation (Category 2)  
Specific Target Organ Toxicity, Single Exposure (Category 3)

**Signal Word:** Danger

**Pictograms:**



**Hazard Statements:** H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H335: May cause respiratory irritation.

**Precaution Statements:** P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**According to Directives 67/548/EEC and 1999/45/EC:**

**Symbol:** Xi: Irritant

**R-phrases:** 37/38-41: Irritating to respiratory system and skin. Risk of serious damage to eyes.

**S-phrases:** 26-36/39: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and eye/face protection.

## SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
Succinic acid	203-740-4	110-15-6	Skin Irrit. 2 Eye Dam. 1 STOT SE 3 Xi	H315, H318, H335 R: 37/38-41	> 60% - < 80%
Succinic acid disodium salt	205-778-7	150-90-3	Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 Xi	H315, H319, H335 R: 36/37/38	> 20% - < 30%

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- After Inhalation:** Remove to fresh air.
- After Skin Contact:** Wash affected area with plenty of water. Remove contaminated clothing.
- After Eye Contact:** Rinse out immediately with plenty of water for at least 10 minutes and seek 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, Water
- Special Risks:**  
Combustible.
- Special Protective Equipment:**  
Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.
- Additional Information:**  
Prevent fire residues and contaminated fire fighting water from entering surface water or groundwater.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

- Personal Precautions:**  
Avoid formation of dusts. Avoid substance contact.
- 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. Avoid generation of dusts.

**SECTION 7: HANDLING AND STORAGE**

- |   |  |
|---|--|
| <b>Handling:</b><br>Avoid generation of dusts. Work under hood. | <b>Storage:</b><br>Store at room temperature (+15 to +25 °C recommended). Tightly closed in a dry and well-ventilated place. Accessible only for authorized persons. |
|---|--|

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

- 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.
- |  |  |  |
|--|--|--|
| <b>Respiratory Protection:</b><br>Required when dusts are generated. | <b>Protective Gloves:</b><br>Rubber or plastic | <b>Eye Protection:</b><br>Goggles or face mask |
|--|--|--|
- Industrial Hygiene:**  
Change contaminated clothing. Wash hands after working with substance.

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## SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance:</b>	Reddish powder	<b>Odor:</b>	Odorless	<b>Density at 20°C:</b>	ND
<b>Melting Point:</b>	ND	<b>Boiling Point:</b>	NA	<b>Solubility:</b>	Soluble
<b>pH at 20°C:</b>	~ 3.8 at 50 g/L in water	<b>Explosion Limit:</b>	ND	<b>Flash Point:</b>	NA
<b>Thermal Decomp.:</b>	NA				

## SECTION 10: STABILITY AND REACTIVITY

### Conditions to be Avoided:

Strong Heating (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

### Product Toxicity

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

### Potential Health Effects:

**Inhalation:** Irritation symptoms in the respiratory tract.

**Skin Contact:** Irritations.

**Eye Contact:** Irritations, risk of serious damage to eyes.

**Ingestion:** Irritations of mucous membranes in the mouth, esophagus and gastrointestinal tract.

**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:

Succinic Acid: acute toxicity:  
LD50 (oral, rat): 2260 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

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

### APPLICABLE TO PARTIAL COMPONENT:

The following applies to Succinic Acid: biological effects: Bacteria: *Ps. putida* EC0 125 mg/L; Protozoa: Colpoda 125 mg/L.

**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.

## SECTION 14: TRANSPORTATION INFORMATION

### Land:

Not subject to transport regulations

### Sea:

Not subject to transport regulations

### Air:

Not subject to transport regulations

**Safety Data Sheet**According to Regulation (EC) No. 1907/2006  
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Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.  
Complies with European Council Directives 67/548/EEC and 1999/45/EC.  
Complies with OSHA Regulation 29 CFR 1910.1200.  
Complies with Canadian Regulation SOR/88-66

**SECTION 16: OTHER INFORMATION*****Text of phrases under Section 3***

R36/37/38: Irritating to eyes, respiratory system and skin.  
R41: Risk of serious damage to eyes.  
H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

***Revision Information***

**Revision Date:** 2013-01-28  
**Supersedes edition of:** 2013-01-08  
**Reason for revision:** Regulation (EC) No. 1272/2008  
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.**