



**Revision Date:** 2012-06-01  
**Reason for Revision:** Reviewed Only

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

**Product Name:** HI 3812 Hardness Buffer Reagent

**Application:** Determination of Hardness 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.  
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:** Sodium Carbonate

**EC-No.:** 207-838-8

**CAS-No.:** 497-19-8

**Hazard:** Xi

**Phrases:** R:36

**Content:** > 1% - < 5%

**SECTION 4: FIRST AID MEASURES**

**After Inhalation:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**After Skin Contact:** In case of contact, immediately wash skin with soap and copious amounts of water.

**After Eye Contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**After Swallowing:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**General Information:** Not available

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

***Suitable Extinguishing Media:***

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

***Special Risks:***

Emits toxic fumes under fire conditions.

***Special Protective Equipment:***

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

***Additional Information:***

NA

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

***Personal Precautions:***

None

***Environmental Precautions:***

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

***Additional Notes:***

None

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

***Handling:***

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

***Storage:***

Keep tightly closed.

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

| <b>Type</b> | <b>Value</b> | <b>Source</b> | <b>Type</b> | <b>Value</b> | <b>Source</b> |
|-------------|--------------|---------------|-------------|--------------|---------------|
|-------------|--------------|---------------|-------------|--------------|---------------|

**Sodium Carbonate, Anhydrous**

|           |                     |         |
|-----------|---------------------|---------|
| TWA (8hr) | 1 mg/m <sup>3</sup> | Romania |
|-----------|---------------------|---------|

***Engineering:***

Safety shower and eye bath. Mechanical exhaust required.

***Personal Protective Equipment:***

As appropriate to quantity handled.

***Respiratory Protection:***

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges.

***Industrial Hygiene:***

Wash thoroughly after handling.

***Protective Gloves:***

Protective gloves.

***Eye Protection:***

Chemical safety goggles.

### **SECTION 9: PHYSICAL/CHEMICAL PROPERTIES**

|                                   |                                      |                                                    |
|-----------------------------------|--------------------------------------|----------------------------------------------------|
| <b><i>Appearance:</i></b> Liquid  | <b><i>Odor:</i></b> Odorless         | <b><i>Density at 20°C:</i></b> 1 g/cm <sup>3</sup> |
| <b><i>Melting Point:</i></b> NA   | <b><i>Boiling Point:</i></b> > 100 C | <b><i>Solubility:</i></b> Soluble                  |
| <b><i>pH at 20°C:</i></b> ~7      | <b><i>Explosion Limit:</i></b> NA    | <b><i>Flash Point:</i></b> NA                      |
| <b><i>Thermal Decomp.:</i></b> NA |                                      |                                                    |

**SECTION 10: STABILITY AND REACTIVITY****Conditions to be Avoided:**

None

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Not available

**Hazardous Decomposition Products:**

Carbon monoxide, Carbon dioxide.

**Substances to be Avoided:**

Strong oxidizing agents.

**SECTION 11: TOXICOLOGICAL INFORMATION****Product Toxicity**

Toxicological properties have not been thoroughly investigated.

**Potential Health Effects:**

**Skin Contact:** May cause skin irritation. May be harmful if absorbed through the skin.

**Eye Contact:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

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**Component Toxicity****Acute Toxicity:****Chronic Toxicity:**

Not Available

**Sodium Carbonate, Anhydrous**

**LC50:** Inhalation - Rat - 4066 mg/L

**LD50:** Oral - Rat - 4090 mg/kg

**Additional Data:**

Not Available

**SECTION 12: ECOLOGICAL INFORMATION**

No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

**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:** 22-26: Do not breath dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**SECTION 16: OTHER INFORMATION**

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

36: Irritating to eyes

***Revision Information***

**Revision Date:** 2012-06-01

**Supersedes edition of:** 2009-06-10

**Reason for revision:** Reviewed Only

***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.**