

**Revision Date:** 2008-12-01  
**Reason for Revision:** REACH Compliance and General Update

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

**Product Name:** HI 50046 pH 4.63 Buffer Solution

**Additional Product Codes:** HI 50046-01  
HI 50046-02

**Application:** pH Buffer Solution

**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:** Aqueous Buffer Solution

**EC-No.:**

**CAS-No.:**

**Hazard:**

**Phrases:**

**Content:**

**SECTION 4: FIRST AID MEASURES**

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

**After Skin Contact:** Wash effected 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:** Wash out mouth with plenty of water, provided person is conscious. Obtain medical attention if feeling unwell.

**General Information:** Not available

**SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:**

Water Spray, Foam, Dry Powder, Carbon Dioxide

**Special Risks:**

Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire.

**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.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal Precautions:**

None

**Environmental Precautions:**

None

**Additional Notes:**

None

**SECTION 7: HANDLING AND STORAGE****Handling:**

No restrictions

**Storage:**

Keep container closed and protected from direct sunlight. Store at room temperature (+15°C to +25°C).

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

Maintain general industrial hygiene practice.

**Personal Protective Equipment:**

As appropriate to quantity handled.

**Respiratory Protection:**

Required when vapors/aerosols are generated.

**Protective Gloves:**

Rubber or plastic

**Eye Protection:**

Goggles or face mask

**Industrial Hygiene:**

Change contaminated clothing. Wash hands after working with substance.

**SECTION 9: PHYSICAL/CHEMICAL PROPERTIES****Appearance:** Colorless liquid**Odor:** Odorless**Density at 20° C:** 1.0 g/cm<sup>3</sup> at 25°C**Melting Point:** NA**Boiling Point:** > 100 °C**Solubility:** Soluble**pH at 20° C:** 4.63 at 25°C**Explosion Limit:** NA**Flash Point:** NA**Thermal Decomp.:** NA**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:**

The generally known reaction partners of water

**SECTION 11: TOXICOLOGICAL INFORMATION**

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

**In Case of Inhalation:**

**In Case of Skin Contact:**

**In Case of Eye Contact:**

**In Case of Ingestion:**

**Further Data:** Hazardous properties cannot be excluded, but are relatively unlikely because of the low concentration of the dissolved substances, when the product is handled appropriately. The product should be handled with the usual care when dealing with chemicals.

**SECTION 12: ECOLOGICAL INFORMATION**

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

**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:** Can be safely disposed of as an ordinary refuse.

**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:**

**Contains:**

**SECTION 16: OTHER INFORMATION**

*Text of R-phrases under Section 3*

**Revision Information**

**Legend**

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

NA: Not Applicable

**Supersedes edition of:** 2006-07-28

ND: Not Determined

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

**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.**