

pH 4.01 Technical Buffer Solution Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Revision Date: 2008-12-01

Reason for Revision: REACH Compliance and General Update

<u>SECTION 1:</u> IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 5004 pH 4.01 Technical Buffer Solution Additional Product Codes: HI 5004-01 HI 5004-12

Application:pH 4.01 Technical Buffer SolutionHI 5004-36

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:

<u>SECTION 4:</u> FIRST AID MEASURES

After Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

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

After Eye Contact: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

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:

Contain escaping vapors with water.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

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: Storage:

Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

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:

Mechanical exhaust required. Safety shower and eye bath.

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). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Industrial Hygiene:

Wash thoroughly after handling.

Protective Gloves:Compatible chemical-resistant gloves.

Eye Protection:

Chemical safety goggles.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Colorless liquid. Odor: Odorless Density at 20° C: 1.0 g/cm³ at 25°C

Melting Point:NABoiling Point:> 100 °CSolubility:SolublepH at 20° C:4.01 at 25°CExplosion Limit:NAFlash Point:NA

Thermal Decomp.: NA

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided: Hazardous Decomposition Products:

None In the event of fire, see section 5.

Hazardous Polymerization: Substances to be Avoided:

Will not occur. Strong oxidizing agents.

Further Information:

Not available



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SECTION 11: T	TOXICOLOGICAL	INFORMATION
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Toxicological properties have not been thoroughly investigated.

In Case of Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

In Case of Skin Contact: Causes skin irritation. May be harmful if absorbed through the skin.

In Case of Eye Contact: Causes eye irritation.

In Case of Ingestion: May be harmful if swallowed.

Further Data:

SECTION 12: ECOLOGICAL INFORMATION

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

Further Data:

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Can be safely disposed of as an ordinary refuse.

SECTION 14: TRANSPORTATION INFORMATION

Land: Sea: Air:

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:



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SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3 Revision Information Legend

Revision Date: 2008-12-01 NA: Not Applicable
ND: Not Determined

Supersedes edition of: 2008-06-01

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.