

HANNA Instruments

HI 7039 Conductivity Calibration Solution  
5000 µS/cm @ 25°C/77°F

**Health & Safety data sheet**  
**According to EC Directive 91/155/EC and following amendments**

Date of issue: 24 September 2004

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

**Product name:**

- HI 7039 Conductivity Calibration Solution, 5000 µS/cm @ 25°C/77°F.

**Application:**

- For calibrating electrodes.

**Manufacturer identification:** Hanna Instruments Italia s.r.l.  
viale delle Industrie, 12/A  
35010 Villafranca Padovana, Italy  
tel. n°.:+39-049-9070211

**Emergency Telephone n. °:** No hazardous product

**SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS**

Aqueous solution.

**SECTION 3 - HAZARD IDENTIFICATION**

No hazardous product as specified in Directive 67/548/EEC.

**SECTION 4 - FIRST AID MEASURES**

- **After inhalation** : if inhaled remove to fresh air. If breathing becomes difficult, call a physician.
- **After skin contact** : wash off 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.

**SECTION 5 – FIRE-FIGHTING MEASURES**

- **Suitable extinguishing media**  
- Water spray, foam, dry powder or carbon dioxide.
- **Special risks:**  
- Non combustible.
- **Special protective equipment for fire fighting:**  
- 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

**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**

- **Personal protective equipment:**  
- As appropriate to quantity handled.
- **Protective gloves:**  
- Rubber or plastic.
- **Respiratory protection:**  
- Required when vapors/aerosols are generated.
- **Eye protection:**  
- Goggles or face mask.

**Health & Safety data sheet**  
According to EC Directive 91/155/EC and following amendments

**SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES**

- |                              |                    |                               |                        |
|------------------------------|--------------------|-------------------------------|------------------------|
| • <b>Appearance</b>          | : colorless liquid | • <b>density at 20°C</b>      | : ~1 g/cm <sup>3</sup> |
| • <b>Odor</b>                | : odorless         | • <b>flash point</b>          | : NA                   |
| • <b>Solubility in water</b> | : soluble          | • <b>explosive properties</b> | : NA                   |
| • <b>Melting point</b>       | : NA               | • <b>explosion limits</b>     | : NA                   |
| • <b>Boiling point</b>       | : > 100 °C         | • <b>ignition temperature</b> | : NA                   |
| • <b>pH value at 20°C</b>    | : ~7               |                               |                        |

**SECTION 10 - STABILITY AND REACTIVITY**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• <b>Conditions to be avoided:</b> <ul style="list-style-type: none"> <li>- Strong heating (above boiling point).</li> <li>- Stable in the recommended storage conditions.</li> </ul> </li> <li>• <b>Hazardous decomposition products:</b> <ul style="list-style-type: none"> <li>- In the event of fire: see section 5.</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• <b>Substances to be avoided:</b> <ul style="list-style-type: none"> <li>- The generally known reaction partners of water.</li> </ul> </li> <li>• <b>Hazardous Polymerization:</b> <ul style="list-style-type: none"> <li>- Will not occur.</li> </ul> </li> </ul> |
|--|--|

**SECTION 11 - TOXICOLOGICAL INFORMATION***Acute toxicity*

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

*Further toxicological information*

Hazardous properties cannot be excluded, but are relatively unlikely because of the low concentration of the dissolved substances and to the data of the components, when the product is handled appropriately.

*Further data*

The product should be handled with the care usual when dealing with chemicals.

**SECTION 12 - ECOLOGICAL INFORMATION***Ecotoxic effects:*

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

*Further ecological 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 off as an ordinary refuse.

**SECTION 14 - TRANSPORT INFORMATION**

Not subject to transport regulations.

**SECTION 15 - REGULATORY INFORMATION****Labeling according to EC Directives:**

- |            |   |
|------------|---|
| Symbol:    | - |
| R-phrases: | - |
| S-phrases: | - |
| Contains:  | - |

**SECTION 16 - OTHER INFORMATION**

- **Supersedes edition of** : June 2002
- **Reason for revision** : 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.

**Health & Safety data sheet**  
**According to EC Directive 91/155/EC and following amendments**

Date of issue: 04 May 2004.

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

**Product name:**

HI 7004 Buffer Solution pH 4.01,  
± 0.01 @ 25°C/77°F

**Application:**

- pH buffer solution

**Manufacturer identification:** Hanna Instruments Italia s.r.l.  
viale delle Industrie, 12/A  
35010 Villafranca Padovana, Italy  
tel. n°.:+39-049-9070211

**Emergency Telephone n. °:** no hazardous product.

### **SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS**

Aqueous solution.

### **SECTION 3 - HAZARD IDENTIFICATION**

No hazardous product as specified in Directive 67/548/EEC.

### **SECTION 4 - FIRST AID MEASURES**

- **After inhalation** : if inhaled remove to fresh air. If breathing becomes difficult, call a physician.
- **After skin contact** : wash off 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.

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

- **Suitable extinguishing media**  
- Water spray, foam, dry powder or carbon dioxide.
- **Special risks:**  
- Non combustible. Development of hazardous combustion gases or vapors possible in the event of fire.  
- The following may develop in event of fire: carbon monoxide, carbon dioxide.
- **Special protective equipment for fire fighting:**  
- 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:**  
Do not inhale vapors/aerosols.
- **Environmental precautions:**  
Do not allow to enter sewerage system.
- **Procedure for cleaning absorption:**  
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

### **SECTION 7 - HANDLING AND STORAGE**

- **Handling:**  
- No further requirements.
- **Storage:**  
- Keep container closed and protected from direct sunlight.  
- Store at room temperature (+15°C to +25°C).

**Health & Safety data sheet**  
**According to EC Directive 91/155/EC and following amendments**

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

- **Engineering controls**
  - Safety shower and eye bath.
- **General hygiene measures**
  - Wash hands after handling. Remove and wash contaminated clothing.
- **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 vapors/aerosols are generated.
- **Protective gloves:**
  - Rubber or plastic
- **Eye protection:**
  - Goggles or face mask

**SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES**

- **Appearance** : colorless liquid
- **Odor** : odorless
- **Solubility in water** : soluble
- **Melting point** : NA
- **Boiling point** : ~ 100 °C
- **pH value at 20°C** : 4.01
- **density at 20°C** : 1 g/cm<sup>3</sup>
- **flash point** : NA
- **explosive properties** : NA
- **ignition temperature** : NA

**SECTION 10 - STABILITY AND REACTIVITY**

- **Conditions to be avoided:**
  - Heating.
  - Stable in the recommended storage conditions.
- **Hazardous decomposition products:**
  - In the event of fire: see section 5.
- **Substances to be avoided:**
  - The generally known reaction partners of water.
- **Hazardous polymerization:**
  - Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION***Acute toxicity*

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

*Further toxicological information*

Hazardous properties cannot be excluded, but are relatively unlikely because of the low concentration of the dissolved substances and to the data of the components, when the product is handled appropriately.

*Further data*

The product should be handled with the care usual when dealing with chemicals.

**SECTION 12 - ECOLOGICAL INFORMATION***Ecotoxic effects:*

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

*Further ecological 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 off as an ordinary refuse.

**SECTION 14 - TRANSPORT INFORMATION**

Not subject to transport regulations.

**Health & Safety data sheet**  
**According to EC Directive 91/155/EC and following amendments**

**SECTION 15 - REGULATORY INFORMATION****Labeling according to EC Directives:**

Symbol: -  
R-phrases: -  
S-phrases: -  
Contains: -

**SECTION 16 - OTHER INFORMATION**

- **Supersedes edition of** : June 2002
  
- **Reason for revision** : 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.

**Health & Safety data sheet**  
**According to EC Directive 91/155/EC and following amendments**

Date of issue: 04 May 2004.

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

**Product name:**

HI 7007 Buffer Solution pH 7.01,  
± 0.01 @ 25°C/77°F

**Application:**

- pH buffer solution

**Manufacturer identification:** Hanna Instruments Italia s.r.l.  
viale delle Industrie, 12/A  
35010 Villafranca Padovana, Italy  
tel. n°.:+39-049-9070211

**Emergency Telephone n. °:** no hazardous product.

### **SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS**

Aqueous solution.

### **SECTION 3 - HAZARD IDENTIFICATION**

No hazardous product as specified in Directive 67/548/EEC.

### **SECTION 4 - FIRST AID MEASURES**

- **After inhalation** : if inhaled remove to fresh air. If breathing becomes difficult, call a physician.
- **After skin contact** : wash off 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.

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

- **Suitable extinguishing media**  
- Water spray, foam, dry powder or carbon dioxide.
- **Special risks:**  
- Non combustible. Development of hazardous combustion gases or vapors possible in the event of fire.  
- The following may develop in event of fire: carbon monoxide, carbon dioxide.
- **Special protective equipment for fire fighting:**  
- 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:**  
Do not inhale vapors/aerosols.
- **Environmental precautions:**  
Do not allow to enter sewerage system.
- **Procedure for cleaning absorption:**  
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

### **SECTION 7 - HANDLING AND STORAGE**

- **Handling:**  
- No further requirements.
- **Storage:**  
- Keep container closed and protected from direct sunlight.  
- Store at room temperature (+15°C to +25°C).

**Health & Safety data sheet**  
**According to EC Directive 91/155/EC and following amendments**

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

- **Engineering controls**
  - Safety shower and eye bath.
- **General hygiene measures**
  - Wash hands after handling. Remove and wash contaminated clothing.
- **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 vapors/aerosols are generated.
- **Protective gloves:**
  - Rubber or plastic
- **Eye protection:**
  - Goggles or face mask

**SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES**

- **Appearance** : colorless liquid
- **Odor** : odorless
- **Solubility in water** : soluble
- **Melting point** : NA
- **Boiling point** : ~ 100 °C
- **pH value at 20°C** : 7.01
- **density at 20°C** : 1 g/cm<sup>3</sup>
- **flash point** : NA
- **explosive properties** : NA
- **ignition temperature** : NA

**SECTION 10 - STABILITY AND REACTIVITY**

- **Conditions to be avoided:**
  - Heating.
  - Stable in the recommended storage conditions.
- **Hazardous decomposition products:**
  - In the event of fire: see section 5.
- **Substances to be avoided:**
  - The generally known reaction partners of water.
- **Hazardous polymerization:**
  - Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION***Acute toxicity*

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

*Further toxicological information*

Hazardous properties cannot be excluded, but are relatively unlikely because of the low concentration of the dissolved substances and to the data of the components, when the product is handled appropriately.

*Further data*

The product should be handled with the care usual when dealing with chemicals.

**SECTION 12 - ECOLOGICAL INFORMATION***Ecotoxic effects:*

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

*Further ecological 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 off as an ordinary refuse.

**SECTION 14 - TRANSPORT INFORMATION**

Not subject to transport regulations.

**Health & Safety data sheet**  
**According to EC Directive 91/155/EC and following amendments**

**SECTION 15 - REGULATORY INFORMATION**

**Labeling according to EC Directives:**

Symbol: -  
R-phrases: -  
S-phrases: -  
Contains: -

**SECTION 16 - OTHER INFORMATION**

- **Supersedes edition of** : June 2002
- **Reason for revision** : 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.

**Health & Safety data sheet**  
**According to EC Directive 91/155/EC and following amendments**

Date of issue: 07 July 2004.

**SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY****Product name:**

HI 7010 Buffer Solution pH 10.01,  
± 0.01 @ 25°C/77°F

**Application:**

- pH buffer solution

**Manufacturer identification:** Hanna Instruments Italia s.r.l.  
viale delle Industrie, 12/A  
35010 Villafranca Padovana, Italy  
tel. n°.:+39-049-9070211

**Emergency Telephone n. °:** no hazardous product.

**SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS**

Aqueous buffer solution.

**SECTION 3 - HAZARD IDENTIFICATION**

No hazardous product as specified in Directive 67/548/EEC.

**SECTION 4 - FIRST AID MEASURES**

- **After inhalation** : if inhaled remove to fresh air. If breathing becomes difficult, call a physician.
- **After skin contact** : wash off 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.

**SECTION 5 – FIRE-FIGHTING MEASURES**

- **Suitable extinguishing media**  
- Water spray, foam, dry powder or carbon dioxide.
- **Special risks:**  
- Non combustible.
- **Special protective equipment for fire fighting:**  
- 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:**  
Do not inhale vapors/aerosols.
- **Procedure for cleaning absorption:**  
Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.

**SECTION 7 - HANDLING AND STORAGE**

- **Handling:**  
- No further requirements.
- **Storage:**  
- Store at room temperature (+15°C to +25°C).

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

- **General hygiene measures**  
- Wash hands after handling. Remove and wash contaminated clothing.
- **Personal protective equipment:**  
- Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

**Health & Safety data sheet**  
**According to EC Directive 91/155/EC and following amendments**

- **Respiratory protection:**
  - Required when vapors/aerosols are generated.
- **Protective gloves:**
  - Rubber or plastic
- **Eye protection:**
  - Goggles or face mask

**SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES**

- |                              |                    |                               |                       |
|------------------------------|--------------------|-------------------------------|-----------------------|
| • <b>Appearance</b>          | : colorless liquid | • <b>pH value at 25°C</b>     | : 10.01               |
| • <b>Odor</b>                | : odorless         | • <b>density at 20°C</b>      | : 1 g/cm <sup>3</sup> |
| • <b>Solubility in water</b> | : soluble          | • <b>flash point</b>          | : NA                  |
| • <b>Melting point</b>       | : NA               | • <b>explosive properties</b> | : NA                  |
| • <b>Boiling point</b>       | : ~ 100 °C         | • <b>ignition temperature</b> | : NA                  |

**SECTION 10 - STABILITY AND REACTIVITY**

- **Conditions to be avoided:**
  - Heating.
- **Hazardous decomposition products:**
  - In the event of fire: see section 5.
- **Substances to be avoided:**
  - The generally known reaction partners of water.
- **Hazardous polymerization:**
  - Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION***Acute toxicity*

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

*Further toxicological information*

Hazardous properties cannot be excluded, but are relatively unlikely because of the low concentration of the dissolved substances and to the data of the components, when the product is handled appropriately.

*Further data*

The product should be handled with the care usual when dealing with chemicals.

**SECTION 12 - ECOLOGICAL INFORMATION***Ecotoxic effects:*

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

*Further ecological 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 off as an ordinary refuse.

**SECTION 14 - TRANSPORT INFORMATION**

Not subject to transport regulations.

**SECTION 15 - REGULATORY INFORMATION****Labeling according to EC Directives:**

- |            |   |
|------------|---|
| Symbol:    | - |
| R-phrases: | - |
| S-phrases: | - |
| Contains:  | - |

**SECTION 16 - OTHER INFORMATION**

- **Supersedes edition of** : June 2002
- **Reason for revision** : 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.