

Material Safety Data Sheets

According to USA Regulations and EC Directive 91/155/EC and following amendments

Date of issue: 07 April 2006.

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name:

• MA9004 pH 4.01 Calibration Buffer Solution

Application:

• pH Calibration Buffer Solution.

Manufacturer identification:

**Milwaukee Instruments.
2950 Business Park Drive
Rocky Mount, NC 27804**

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. Development of hazardous combustion gases or vapors possible in the event of fire.
- **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.
- **Respiratory protection:**
 - Required when vapors/aerosols are generated.
- **Protective gloves:**
 - Rubber or plastic.
- **Eye protection:**
 - Goggles or face mask.

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SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

- **Appearance** : colorless liquid
- **Odor** : odorless
- **Solubility in water** : soluble
- **Melting point** : NA
- **Boiling point** : > 100 °C
- **pH value at 25°C** : 4.01
- **density at 25°C** : 1.0 g/cm³
- **flash point** : NA
- **explosive properties** : NA
- **explosion limits** : NA
- **ignition temperature** : 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** : 10 May 2005
- **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.