

**MA9012 Refilling Electrolyte Solution 1M KNO₃
for double junction electrodes**



Health & Safety data sheet

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

Date of issue: 12 January 2008

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

- **Product name:** MA9012 Reference Electrolyte 1 M KNO₃,
- **Application:** Reference electrolyte solution for double junction electrodes
- **Manufacturer identification:** Milwaukee s.r.l.
Corso Leonardo Da Vinci 48/50
21013 Gallarate VA
tel. n°.:+39 0331 268009
- **Emergency Telephone n°:** +39-02-66101029
CENTRO ANTIVELENI OSPEDALE NIGUARDA (MI) - ITALY
- **E-mail Address:** sales@milwaukee.191.it

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 Solution
- **EC-No.:**
- **CAS-No.:**
- **Phrases:**
- **Content:**
- **Hazard:**

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.
- **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

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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: | 1.06 g/cm ³ | • Melting Point: | NA |
| • Boiling Point: | > 100°C | • Solubility: | Soluble |
| • pH at 20° C: | ~ 7 | • Explosion Limit: | NA |
| • Flash Point: | NA | • Thermal Decomp.: | NA |

SECTION 10: STABILITY AND REACTIVITY

- **Hazardous Decomposition Products:** In the event of fire: See section 5.
- **Conditions to be Avoided:** Strong Heating (above boiling point). Stable in the recommended storage conditions.
- **Substances to be Avoided:** The generally known reaction partners of water
- **Hazardous Polymerization:** Will not occur
- **Further Information:** Not available

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.

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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**

- **Reason for revision:** REACH Compliance and General Update
- **Revision Date:** 2008-12-01
- **Supersedes edition of:** 2008-01-17

• **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 PRODU