

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

Date of issue: 3 May 2004.

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product Name: MA9020 ORP Solution for Platinum and Gold electrodes, 200 to 275 mV @ 25°C/77°F
Application: Redox solution for platinum and gold electrodes.

Manufacturer identification: Milwaukee s.r.l.
 c.so Leonardo Da Vinci
 48/50
 21013 Gallarate (VA), Italy
 +39 331 268009

Emergency Telephone n. °: no hazardous product.

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:

NAME (EC directives)	EC-Index-No.	CAS No.	LABELLING (EC directives)	CONTENT
quinhydrone	NA	106-34-3	Xn, N R22-50	≥ 0.1% < 5 %

(full text of R-phrases in section 16)

SECTION 3 - HAZARD IDENTIFICATION

Harmful to aquatic organism.

SECTION 4 - FIRST AID MEASURES

- **After inhalation :** fresh air.
- **After skin contact :** wash off with plenty of water.
- **After eye contact :** rinse out with water.
- **After swallowing :** wash out mouth thoroughly with water and give plenty of water to drink. In severe cases obtain medical attention.

SECTION 5 – FIRE-FIGHTING MEASURES

- **Suitable extinguishing media**
 - In adaptation to materials stored in the neighborhood.
- **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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- **Personal precautions:**
 - Do not inhale vapors/aerosols.
- **Environmental precautions:**
 - Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.

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

• **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. Work under hood.

• **Protective gloves:**

- Rubber or plastic

• **Eye protection:**

- Goggles or face mask

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

• **appearance and odor** : colorless liquid

• **odor** : odorless

• **flash point** : NA

• **solubility in water** : soluble

• **explosion limits** : NA

• **melting point** : NA

• **density at 20°C** : 1.01 g/cm³

• **boiling point** : ND

• **ignition temperature** : NA

• **pH value at 20°C** : 4

SECTION 10 - STABILITY AND REACTIVITY

• **Conditions to be avoided:**

- Strong heating (above boiling point).

• **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.

APPLICABLE TO PARTIAL COMPONENT:

The following applies to quinhydrone, as the pure substance:

Acute toxicity

LD 50 (oral, rat): 225 mg/kg.

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.

Health & Safety data sheet

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

SECTION 12 - ECOLOGICAL INFORMATION

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

APPLICABLE TO PARTIAL COMPONENT:

The following applies to quinhydrone, as the pure substance:

Ecotoxic effects:

Biological effects:

Highly toxic for aquatic organisms.

Daphnia toxicity: Daphnia LC0: 0.4 mg/l.

Bacterial toxicity: E.coli LC0: 5 mg/l.

Further ecologic data:

Do not allow to enter waters, waste water, or soil!

SECTION 13 - DISPOSAL CONSIDERATIONS

• **Waste disposal:**

- Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice.
- Handle contaminated packaging in the same way as the substance itself.

SECTION 14 - TRANSPORT INFORMATION

Not subject to transport regulations.

SECTION 15 - REGULATORY INFORMATION

Labeling according to EC Directives:

Symbol: -

R-phrases: 52 Harmful to aquatic organism.

S-phrases: 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains: -

SECTION 16 - OTHER INFORMATION

• **Text of any R phrases referred to under section 2:**

22 : Harmful if swallowed.

50 : Very toxic to aquatic organisms.

• **Supersedes edition of :** June 2002

• **Reason for revision :** change in labeling after reevaluation

• **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.