

MA9070 Zero Oxygen Solution



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

Date of issue: 06 October 2004.

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name: MA9070 Zero Oxygen Solution.
Application: Dissolved oxygen solution.

Manufacturer identification: Milwaukee s.r.l.
Corso Leonardo Da Vinci 48/50
21013 Gallarate VA - Italy
tel.: +39 0331 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
Sodium metabisulfite	016-063-00-2	7681-57-4	Xn R22-31-41	≥ 1% - < 10%

(full text of R phrases in section 16)

SECTION 3 - HAZARD IDENTIFICATION

The concentration of the hazardous ingredient is below the limits of classification: a classification according to categories of danger as specified in directive 67/548/EC is not required.
Risk cannot be excluded if the product is handled improperly.

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:**
 - In adaptation to materials stored in the immediate neighborhood.
- **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: sulfur oxides.
- **Special protective equipment for fire fighting:**
 - Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.
- **Additional information:**
 - Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- **Personal precautions:**
 - Do not inhale vapors/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.
- **Environmental precautions:**
 - Do not allow to enter the sewerage system.
- **Additional notes:**
 - Take up dry. Clean up affected area and dispose according to local regulation.

Health & Safety data sheet

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SECTION 7 - HANDLING AND STORAGE

• **Handling:**

- Avoid generation of vapors/aerosols.
- Do not inhale substance.

• **Storage:**

- Tightly closed. In a well-ventilated place at +15 to +25 °C.

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** : Colorless

• **Odor** : Odorless

• **Solubility in water** : Soluble

• **Melting point** : NA

• **Boiling point** : ND

• **Thermal decomposition** : NA

• **pH value at 20°C** : 5

• **Density at 20°C** : 1.02 g/cm³

• **Explosion limits** : NA

• **Flash point** : 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:**

- Hazardous polymerization: will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

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

APPLICABLE TO PARTIAL COMPONENT(S):

- The following applies to Sodium metabisulfite, as the pure substance:

Acute toxicity

LD₅₀ (oral, rat): 1540 mg/kg.

Specific symptoms in animal studies:

Eye irritation test (rabbit): Irritations.

Skin irritation test (rabbit): No irritation.

Subacute to chronic toxicity

Noncarcinogenic in animal experiments.

Mutagenicity (mammal cell test): micronucleus negative.

Bacterial mutagenicity: Ames test: negative.

No impairment of reproductive performance in animal experiments.

No teratogenic effect in animal experiments.

Property of this product must be anticipated on the basis from the components of the preparation:

• **In case of inhalation of vapors/aerosols**

Irritations of the mucous membranes, coughing.

• **In case of skin contact**

Slight irritations.

• **In case of eye contact**

Irritations.

• **In case of ingestion**

Irritations of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.

• **Further data**

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

Health & Safety data sheet

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SECTION 12 - ECOLOGICAL INFORMATION

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

APPLICABLE TO PARTIAL COMPONENT(S):

- The following applies to Sodium metabisulfite, as the pure substance:

Biologic degradation:

Methods for the determination of biodegradability are not applicable to inorganic substances.

Ecotoxic effects:

Biological effects:

Harmful effect on aquatic organisms.

When introduced properly, no impairments in the function of adapted biological waste-water-treatment plants are to be expected.

Fish toxicity: *Onchorhynchus mykiss* LC₅₀: 150-220 mg/l /96 h.

Daphnia toxicity: *Daphnia magna* EC₅₀: 89 mg/l /48 h.

Algal toxicity: *Desmodesmus subspicatus* IC₅₀: 48 mg/l /72 h.

Bacterial toxicity: *Ps.putida* EC₅₀: 56 mg/l /17 h.

Further ecologic data:

COD: 0.168 g/g (calculated).

TOD: 0.154 g/g.

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: -
- S-phrases: -
- Contains: -

SECTION 16 - OTHER INFORMATION

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

22 : Harmful if swallowed.

31 : Contact with acids liberates toxic gas.

41 : Risk of serious damage to eyes.

• **Supersedes edition of :** June 2002.

• **Reason for revision :** change in labeling after reevaluation of constituents.

• **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.