

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 OSHA Regulation 29 CFR 1910.1200 Canadian Regulation SOR/88-66

Revision Date: 2016-06-01 **Reason for Revision:** Reviewed Only

<u>SECTION 1:</u> IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: MA9025 # 1 Reducing Pretreatment Additional Product Codes: MA9025 Bottle #1

Application: Maintenance Solution for ORP Electrodes

Company Information (USA):

Milwaukee Instruments, Inc.

2950 Business Park Drive; Rocky Mount, NC 27804

Technical Service Contact Information: 1-877-283-7837 (8:30AM - 5:00PM ET) +1-252-443-3630 (8:30AM - 5:00PM ET)

USA Emergency Contact Information: 1-252-443-3630 (Chemtrec 24Hr. Emergency)

International Emergency Contact Information: 1-252-443-3630 (Chemtrec 24Hr. Emergency) E-mail Address:

support@milwaukeeinstruments.com

<u>SECTION 2:</u> HAZARD IDENTIFICATION

Non-hazardous product as specified in Directives 67/548/EEC and 1999/45/EC. Non-hazardous product as specified in OSHA Regulation 29 CFR 1910.1200. Non-hazardous product as specified in Canadian Regulation SOR/88-66.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: Iron (II) Sulfate Heptahydrate

EC-No.: 231-753-5

CAS-No.: 7782-63-0

Hazard: Xn

Phrases: R: 22

Content: > 1% - < 10%

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Call a physician if breathing becomes difficult.

After Skin Contact: Wash affected 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: Remove contaminated, soaked clothing immediately and dispose of safely.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam.

Special Risks:

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:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional Information:

Product itself is non-combustible. Cool container with spray water from a safe distance. Contain escaping vapors with water.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation.

Environmental Precautions:

Do not discharge into the drains/surface waters/groundwater.

Additional Notes:

Render harmless: neutralize with diluted sodium hydroxide solution or by throwing on lime, lime sand, or sodium carbonate.

SECTION 7: HANDLING AND STORAGE

Handling: Storage:

Avoid generation of vapors/aerosols. Do not inhale Tightly closed. In a well-ventilated place at +15 to +25 °C, protected

substance. from light.

<u>SECTION 8:</u> EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

substances nandied.

Respiratory Protection: Protective Gloves: Eye Protection:

Required when vapors/aerosols are generated. Rubber or plastic Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Light green liquid Odor: Odorless Density at 20°C: 1.02 g/cm³

Melting Point:NDBoiling Point:NDSolubility:SolublepH at 20°C:< 2</td>Explosion Limit:NAFlash Point:NA

Thermal Decomp.: ND

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided: Hazardous Decomposition Products:

Heating In the event of fire: See section 5.

Hazardous Polymerization: Substances to be Avoided:

Will not occur. Strong alkalis/bases

Further Information:

Not available



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SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

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

Potential Health Effects:

Skin Contact: Slight irritation under certain circumstances repeated skin contact may cause dermatitis or may cause irritative

symptoms.

Eye Contact: Intensive exposure may cause irritative symptoms.

Ingestion: After swallowing of large amounts: bloody vomiting, diarrhoea, drop in blood pressure.

Further Data: The previous applies to soluble iron compounds: nausea and vomiting after swallowing. The absorption of large

quantities is followed by cardiovascular disorders. Toxic effect on liver and kidneys. Further hazardous properties

cannot be excluded. The product should be handled with the usual care when dealing with chemicals.

Component Toxicity

Acute Toxicity: Chronic Toxicity:

Not Available

Not Available

Additional Data:

APPLICABLE TO MAIN COMPONENT:

The following applies to Iron (II) Sulphate Heptahydrate, as the pure substance:

Acute toxicity

LD50 (oral, rat): 319 mg/kg (anhydrous substance).

Subacute to chronic toxicity

Sensitization:

In animal experiments: No sensitizing effect. Bacterial mutagenicity: Ames test: negative.

SECTION 12: ECOLOGICAL INFORMATION

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

APPLICABLE TO MAIN COMPONENT:

The following applies to Iron (II) Sulphate Heptahydrate, as the pure substance:

Biologic degradation:

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

Ecotoxic effects:

Biological effects:

Fish toxicity: P.reticulata LC50: 925 mg/L /96 h.

Daphnia toxicity: Daphnia magna EC50: 152 mg/L /48 h (anhydrous substance).

Bacterial toxicity: Pseudomonas fluorescens EC0: 100 mg/L /24 h (anhydrous substance).

Further ecologic data:

The following applies to dissolved iron compounds in general: fish: toxic as from 0.9 mg/L at pH 6.5-7.5; lethal as from 1 mg/L at pH 5.5-6.7; 50 mg/L iron upper limit for fish life.

When iron ions flocculate in an alkaline medium, mechanical damage occurs in aquatic organisms.

Further Data: Do not allow to enter waters, waste waters, or soil!

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Can be safely disposed of as ordinary refuse.

SECTION 14: TRANSPORTATION INFORMATION

Land: Sea: Air:

<u>SECTION 15: REGULATORY INFORMATION</u>

Labeling according to EC Directives:

Non-hazardous according to Directives 67/548/EEC and 1999/45/EC.



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SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3 Revision Information Legend

22: Harmful if swallowed Revision Date: 2016-06-01 NA: Not Applicable ND: Not Determined

Supersedes edition of: 2009-06-10

Reason for revision: Reviewed Only

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.