



According to Regulation (EC) No. 1907/2006

Revision Date: 2008-12-01

Reason for Revision: REACH Compliance and General Update

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name:HI 7040 Zero Oxygen SolutionAdditional Product Codes: HI 7040LApplication:Dissolved Oxygen SolutionHI 7040/G

Company Information (USA):

Hanna Instruments, Inc.

584 Park East Dr, Woonsocket, Rhode Island, USA 02895

Technical Service Contact Information: 1-800-426-6287 (8:30AM - 5:00PM ET)

+1-401-766-4260 (8:30AM - 5:00PM ET)

USA Emergency Contact Information: 1-800-424-9300 (Chemtrec 24Hr. Emergency)

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

International Emergency Contact Information:

Non-hazardous product as specified in Directives 67/548/EEC and 1999/45/EC.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: Sodium Metabisulfite

EC-No.: 231-673-0

E-mail Address:

CAS-No.: 7681-57-4

Hazard: Xn, Xi

Phrases: R: 22-31-41

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 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, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam.

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:

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.



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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.

SECTION 7: HANDLING AND STORAGE

Handling: Storage:

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

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

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredients:

UK

Name: Sodium Metabisulfite

Type: LTEL Value: 5 mg/m³ 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

Respiratory Protection: Protective Gloves: Eye Protection:

Required when vapors/aerosols are generated. Work under hood.

Rubber or plastic

Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Colorless Odor: Odorless Density at 20° C: 1.02 g/cm3 Melting Point: NA **Boiling Point:** ND Solubility: Soluble pH at 20° C: 5 Explosion Limit: NA Flash Point: NA

Thermal Decomp.: NA

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. The generally known reaction partners of water

Further Information:

Not available



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SECTION 11: TOXICOLOGICAL INFORMATION

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

APPLICABLE TO PARTIAL COMPONENT:

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 nagative.

Bacterial mutagenicity: Ames test: negative.

No impairment of reproductive performance in animal experiments.

No teratogenic effect in animal experiments.

In Case of Inhalation: 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 usual care when dealing with chemicals.

SECTION 12: ECOLOGICAL INFORMATION

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

APPLICABLE TO PARTIAL COMPONENT:

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.

Algeal toxicity: Desmodesmus subspicatus IC50: 48 mg/L /72 h.

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

COD: 0.168 g/g (calculated).

TOD: 0.154 g/g. Further Data:

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: TRANSPORTATION INFORMATION

Land: Sea: Air:



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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 Legend

22: Harmful if swallowed.

Revision Date: 2008-12-01 NA: Not Applicable
31: Contact with acids liberates toxic gas.

A1: Pick of serious damage to eyes

Supersedes edition of: 2008-01-17

41: Risk of serious damage to eyes.

Reason for revision:

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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.