



Zero Oxygen Solution, Component I

Safety Data Sheet

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

Revision Date: 2011-11-22 **Reason for Revision:** (1st edition)

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 7040-1 Zero Oxygen Solution, Component I

Additional Product Codes: HI 7040-2

HI 7040-2

Application: Calibration of Dissolved Oxygen Sensors

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)

International Emergency Contact Information: +1-703-527-3887 (Chemtrec 24Hr. Emergency)

E-mail Address: tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

Harmful if swallowed. Contact with acids liberates toxic gases. Risk of serious damage to eyes.

According to Regulation (EC) No. 1272/2008:

Classification: Acute Toxicity, Oral (Category 4)

Eye Damage (Category 1)

Signal Word: Danger

Pictograms:



Hazard H302: Harmful if swallowed.

Statements: H318: Causes serious eye damage.

EUH031: Contact with acids liberates toxic gas.

Precaution P280: Wear protective gloves/eye protection/face protection.

Statements: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

According to Directives 67/548/EEC and 1999/45/EC:

Symbol: Xn: Harmful

R-phrases: 22-31-41: Harmful if swallowed. Contact with acids liberates toxic gases. Risk of serious damage to eyes.

S-phrases: 26-39-46: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face

protection. If swallowed, seek medical advice immediately and show this container or label.

<u>SECTION 3:</u> COMPOSITION AND COMPONENT INFORMATION

Component: EC No: CAS No: Hazard Class: Phrases: Concentration:

Sodium metabisulfite 231-673-0 7681-57-4 Acute Tox. 4 H302, H318, EUH031

Eye Dam. 1 R: 22-31-41

Xn, Xi



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SECTION 4: FIRST AID MEASURES

After Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

After Skin Contact: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and

shoes. Call a physician.

After Eye Contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by

separating the eyelids with fingers. Call a physician.

After Swallowing: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Dry chemical powder.

Special Risks:

Emits toxic fumes under fire conditions.

Special Protective Equipment:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Additional Information:

NA

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Environmental Precautions:

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Additional Notes:

None

SECTION 7: HANDLING AND STORAGE

Handling: Storage:

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Keep tightly closed. Keep away from acids and oxidizers.





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Туре	Value	Source	Туре	Value	Source
Sodium Metabisulfite					
TWA (8hr)	5 mg/m³	Belgium	TWA (8hr)	5 mg/m³	Canada (Ontario)
TWA (8hr)	5 mg/m³	Canada (Quebec)	TWA (8hr)	5 mg/m³	France
TWA (8hr)	5 mg/m³	Greece	TWA (8hr)	5 mg/m³	Portugal
TWA (8hr)	5 mg/m³	Spain	TWA (8hr)	5 mg/m³	UK

Engineering:

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection: Protective Gloves: Eye Protection:

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Compatible chemical-resistant gloves.

Chemical safety goggles.

Industrial Hygiene:

Wash thoroughly after handling.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

White crystals Odor: Pungent Density at 20 °C: 1.48 g/cm3 Appearance: 650 g/L 300 °C Melting Point: **Boiling Point:** NA Solubility: 4.5 pH at 20 °C: NA Flash Point: NA Explosion Limit:

Thermal Decomp.: NA

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided: Hazardous Decomposition Products:

Air sensitive. Moisture sensitive. Sulfur oxides.

Hazardous Polymerization: Substances to be Avoided:

Will not occur. Acids, oxidizers.

Further Information:

Not available



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SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

ACUTE TOXICITY

LD50 (Oral, Rat): > 2000 mg/kg LD50 (Skin, Rat): > 2000 mg/kg LD50 (Intravenous, Rat): 115 mg/kg LD50 (Parenteral, Mouse): 910 mg/kg

IRRITATION DATA Skin, Rabbit: 500 mg Potential Health Effects:

Inhalation: Coughing, wheezing. May be irritating to mucous membranes and upper respiratory tract. May cause asthma

symptoms.

Skin Contact: May cause skin irritation. May be harmful if absorbed through the skin.

Eye Contact: Causes severe eye irritation.

Ingestion: Abdominal pain, nausea, vomiting.

Further Data: No toxic effects are to be expected when the product is handled appropriately.

Component Toxicity

Acute Toxicity: Chronic Toxicity:

Not Available Not Available

Additional Data: Not Available

SECTION 12: ECOLOGICAL INFORMATION

IC50 Algae: 48 mg/L (72 h) EC50 Daphnia: 89 mg/L (24 h) LC50 Fish: 150-220 mg/L (96 h)

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local

environmental regulations.

SECTION 14: TRANSPORTATION INFORMATION

Land: Sea: Air:

Not subject to transport regulations. Not subject to transport regulations. Not subject to transport regulations.

SECTION 15: REGULATORY INFORMATION

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.

Complies with European Council Directives 67/548/EEC and 1999/45/EC.

Complies with OSHA Regulation 29 CFR 1910.1200.

Complies with Canadian Regulation SOR/88-66



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SECTION 16: OTHER INFORMATION

Text of phrases under Section 3

R22: Harmful if swallowed.

R31: Contact with acids liberates toxic gas. R41: Risk of serious damage to eyes.

H302: Harmful if swallowed.

H318: Causes serious eye damage.

EUH031: Contact with acids liberates toxic gas.

Revision Information

Revision Date: 2011-11-22
Supersedes edition of: (1st edition)
Reason for revision: (1st edition)

Legend NA: Not Applicable

ND: Not Determined

This product is intended to be mixed with HI 7040-2. Please refer to the SDS for HI 7040-2 for additional information.

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.