

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

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 7040-2 Zero Oxygen Solution, Component I+II
 (after mixing with HI 7040-1)

Additional Product Codes: HI 7040L
 HI 7040-1

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

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.

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

Classification: Eye Irritation (Category 2)

Signal Word: **Warning**

Pictograms:



Hazard Statements: H319: Causes serious eye irritation.

EUH031: Contact with acids liberates toxic gas.

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
Sodium metabisulfite (after mixing with HI 7040-1)	231-673-0	7681-57-4	Acute Tox. 4 Eye Dam. 1 Xn, Xi	H302, H318, EUH031 R: 22-31-41	> 1% - < 3%

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: Wash affected area with water and soap.

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

Safety Data Sheet

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

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:

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

Additional Notes:

None

SECTION 7: HANDLING AND STORAGE

Handling:

Avoid generation of vapors/aerosols. Do not inhale substance. Work under hood.

Storage:

Keep container closed and protected from direct sunlight. Store at room temperature (+15°C to +25°C).

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<i>Type</i>	<i>Value</i>	<i>Source</i>	<i>Type</i>	<i>Value</i>	<i>Source</i>
Sodium Metabisulfite					
TWA (8hr)	5 mg/m ³	Belgium	TWA (8hr)	5 mg/m ³	Canada (Ontario)
TWA (8hr)	5 mg/m ³	Canada (Quebec)	TWA (8hr)	5 mg/m ³	France
TWA (8hr)	5 mg/m ³	Greece	TWA (8hr)	5 mg/m ³	Portugal
TWA (8hr)	5 mg/m ³	Spain	TWA (8hr)	5 mg/m ³	UK

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection:

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

Protective Gloves:

Compatible chemical-resistant gloves.

Eye Protection:

Chemical safety goggles.

Industrial Hygiene:

Wash thoroughly after handling.

Safety Data Sheet

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

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Colorless liquid	Odor:	Pungent	Density at 20 °C:	1.0 g/cm³
Melting Point:	0 °C	Boiling Point:	100 °C	Solubility:	Soluble
pH at 20 °C:	~ 4.5	Explosion Limit:	NA	Flash Point:	NA
Thermal Decomp.:	NA				

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Strong Heating (above boiling point). Air sensitive.

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

Sulfur oxides.

Substances to be Avoided:

Acids, oxidizers.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

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

Potential Health Effects:

Inhalation: Severe irritations. May cause asthma symptoms.

Skin Contact: May cause skin irritation.

Eye Contact: May cause 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:

Not Available

Chronic Toxicity:

Not Available

Additional Data:

APPLICABLE TO MAIN COMPONENT:

The following applies to Sodium Metabisulfite, as the pure substance:

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

SECTION 12: ECOLOGICAL INFORMATION

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

APPLICABLE TO MAIN COMPONENT:

The following applies to Sodium Metabisulfite, as the pure substance:

IC50 Algae: 48 mg/L (72 h)

EC50 Daphnia: 89 mg/L (24 h)

LC50 Fish: 150-220 mg/L (96 h)

Safety Data Sheet

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

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:

Not subject to transport regulations.

Sea:

Not subject to transport regulations.

Air:

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

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)

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Legend
NA: Not Applicable
ND: Not Determined

This SDS is for the resulting mixture after combining HI 7040-1 and HI 7040-2.
Please refer to the SDS for "HI 7040-1" and "HI 7040-2 (Before Mixing)" 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.