

Revision Date: 2010-12-01
Reason for Revision: Regulation (EC) No. 1272/2008 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 38067C-0 Silica High Range Reagent C

Application: Determination of Silica in Water Samples

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

Contact with acids liberates toxic gas.

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: 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: -

R-phrases: 31: Contact with acids liberates toxic gas.

S-phrases: 22-24/25: Do not breathe dust. Avoid contact with skin and eyes.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
Sodium sulfite	231-821-4	7757-83-7	Eye Irrit. 2	H319, EUH031 R: 31	-

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:

Foam, Powder, Dry Sand, Carbon Dioxide

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:

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid generation of dusts. Do not inhale dusts.

Environmental Precautions:

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

Additional Notes:

Take up dry. Clean up affected area and dispose according to local regulation.

SECTION 7: HANDLING AND STORAGE

Handling:

Avoid generation of dusts. Avoid contact with eyes, skin and clothing. Accessible only for authorized persons.

Storage:

Store at room temperature (+15 to +25 °C). Tightly closed in a dry and well-ventilated place. Keep away from sources of ignition and heat.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering:

Safety shower and eye wash. Mechanical exhaust required.

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 dusts are generated. Work under hood.

Protective Gloves:

Rubber or plastic

Eye Protection:

Goggles or face mask

Industrial Hygiene:

Wash thoroughly after handling.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:

White powder

Odor:

Odorless

Density at 20 °C: 2.63 g/cm³

Melting Point:

NA

Boiling Point:

NA

Solubility: 220 g/L (20 °C)

pH at 20 °C:

9 - 10 @ 50 g/L

Explosion Limit:

NA

Flash Point: NA

Thermal Decomp.: > 500 °C

Safety Data SheetAccording to Regulation (EC) No. 1907/2006
OSHA Regulation 29 CFR 1910.1200
Canadian Regulation SOR/88-66**SECTION 10: STABILITY AND REACTIVITY****Conditions to be Avoided:**

Heating. Sensitive to moisture.

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

In the event of fire: See section 5.

Substances to be Avoided:

Strong acids, strong oxidizing agents

SECTION 11: TOXICOLOGICAL INFORMATION**Product Toxicity**

Acute toxicity

LD50 (oral, rat): 2610 mg/kg.

Specific symptoms in animal studies:

Eye irritations test (rabbit): slight irritations

Skin irritation test (rabbit): no irritation.

Subacute to chronic toxicity

Bacterial mutagenicity: Salmonell typhimurium: negative.

Bacterial mutagenicity: Ames test: negative.

Bacterial mutagenicity: Escherichia coli: negative.

No teratogenic effects in animal experiments.

Sensitization

Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Potential Health Effects:**Inhalation:** Material is irritating to mucous membranes and upper respiratory tract.**Skin Contact:** Irritations.**Eye Contact:** Irritations.**Ingestion:** Irritation of the gastrointestinal tract. Large doses may cause violent colic and diarrhea, circulatory disturbances, central nervous depression, and even death.**Further Data:** Further hazardous properties cannot be excluded. The product should be handled with the usual care when dealing with chemicals.**Component Toxicity****Acute Toxicity:**

Not Available

Chronic Toxicity:

Not Available

Additional Data:

Not Available

SECTION 12: ECOLOGICAL INFORMATION

Behavior in environmental compartments:

Distribution: log p(o/w): -4 (25°C) (experimental).

No bioaccumulation is to be expected (log P(o/w) <1).

Biological effects: fish toxicity: L.idus LC50 220-460 mg/L /96 h;

Daphnia toxicity: Daphnia magna EC50 273 mg/L /48 h;

Bacterial toxicity: Ps. putida EC50 770 mg/L /17 h

Further Data: COD: 0.125 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: TRANSPORTATION INFORMATION**Land:**ADR/RID: 9, II
UN-No.: 3316
Name : CHEMICAL KIT**Sea:**IMDG: class 9/UN 3316/PG II
Name: CHEMICAL KIT
Marine Pollutant: No
Severe Marine Pollutant: No**Air:**ICAO/IATA: 9/UN 3316/PG II
Name: CHEMICAL KIT

Transport data applies to the COMPLETE KIT!

SECTION 15: REGULATORY INFORMATIONComplies 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***R31: Contact with acids liberates toxic gas.
H319: Causes serious eye irritation.
EUH031: Contact with acids liberates toxic gas.***Revision Information*****Revision Date:** 2010-12-01
Supersedes edition of: 2009-06-10
Reason for revision: Regulation (EC) No. 1272/2008
Compliance***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.