



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

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 38067B-0 Silica High Range Reagent B **Application:** Determination of Silica in Water Samples

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)

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

SECTION 2: HAZARD IDENTIFICATION

Irritating to respiratory system and skin. Risk of serious damage to eyes.

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

Classification: Skin Irritation (Category 2)

Eye Damage (Category 1)

Signal Word: Danger

Pictograms:

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Hazard H315: Causes skin irritation.
Statements: H318: Causes serious eye damage.

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: Xi: Irritant

R-phrases: 38-41: Irritating to skin. Risk of serious damage to eyes.

S-phrases: 26-36/39: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable

protective clothing and eye/face protection.

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

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

Citric acid 201-069-1 77-92-9 Skin Irrit. 2 H315, H318

Eye Dam. 1 R: 38-41

Χi

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air.

After Skin Contact: Wash affected area with water. Remove contaminated clothing.

After Eye Contact: 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: Immediately make victim drink plenty of water. Call in physician.

General Information: Not available



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<u>SECTION 5:</u> 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 followings may develop in the event of fire: Carbon Monoxide, Carbon Dioxide

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 substance contact. Avoid generation of dusts. Do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

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: Storage:

Avoid generation of dusts. Do not inhale substance.
Accessible only for authorized persons

Store at room temperature (+15 to +25 °C). Tightly closed. Protect from light and moisture and from solvents.

Goggles or face mask

Flash Point:

NA

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection: Protective Gloves: Eye Protection:

Required when dusts are generated. Compatible chemical-resistant gloves.

Industrial Hygiene:

pH at 20 °C:

Wash thoroughly after handling.

<u>SECTION 9:</u> PHYSICAL/CHEMICAL PROPERTIES

2.1 @ 10 g/L

Appearance: White powder Odor: Odorless Density at 20 °C: ND

Explosion Limit:

Melting Point:153 °CBoiling Point:NASolubility:1330 g/L

Thermal Decomp.: NA

NA



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SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Strong Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

Toxic gases: See section 5. Substances to be Avoided:

Metals, oxidizing agents, bases, reducing agents.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

Acute toxicity

LD50, oral, rat: 3000 mg/Kg - calculated on the pure substance. (RTECS).

Specific symptoms in animal studies:

Eye irritation test (rabbit): Severe irritations (Lit.).

Skin irritation test (rabbit): Slight irritations (Lit.).

Subacute to chronic toxicity

Bacterial mutagenicity: Ames test: negative (Lit.).

No teratogenic effect in animal experiments (Lit.).

No impairment of reproductive performance in animal experiments (Lit.).

Potential Health Effects:

Inhalation: Irritation symptoms in the respiratory tract.

Skin Contact: Slight irritations.

Eye Contact: Severe irritations.

Ingestion: Irritations of: mucous membranes (stomach); coughing, pain, bloody vomiting.

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: Chronic Toxicity:

Not Available

Not Available

Additional Data: Not Available



HI 38067B-0 Silica High Range Reagent B

Safety Data Sheet
According to Regulation (EC) No. 1907/2006

OSHA Regulation 29 CFR 1910.1200 Canadian Regulation SOR/88-66

ICAO/IATA: 9/UN 3316/PG II

Name: CHEMICAL KIT

SECTION 12: ECOLOGICAL INFORMATION

Biologic degradation:

Biodegradation: 98 % /2 d (OECD 302 B) (IUCLID).

Easily eliminable.

Behaviour in environmental compartments: Distribution: log Pow: -1.72 (20 °C) (IUCLID). No bioaccumulation is to be expected (log Pow <1).

Ecotoxic effects

Biological effects: Harmful effect due to pH shift.

Fish toxicity: L.idus LC50: 440-760 mg/L /96 h (IUCLID).

Daphnia toxicity: Daphnia magna EC50: ~120 mg/L /72 h (IUCLID).

Maximum permissible toxic concentration: Protozoa: E.sulcatum EC5: 485 mg/L /72 h (Lit.).

Bacterial toxicity: Ps.putida EC5: >10000 mg/L /16 h (Lit.). M.aeruginosa EC5: 80 mg/L /8 d (Lit.).

Algeal toxicity: Sc.quadricauda IC5: 640 mg/L /7 d (Lit.).

Behavior in environmental compartments:

Distribution: log p(o/w): -1.72 (20 °C); No bioaccumulation is to be expected (log P(o/w <1).

Further ecologic data: Degradability: BOD5: 0.526 g/g (Lit.).

BOD5: 0.526 g/g (Lit.). TOD: 0.75 g/g (calculated). COD: 0.728 g/g (Lit.).

Further Data: Degradability:

BOD5: 0.526 g/g; TOD: 0.75 g/g; COD: 0.728 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: Sea: Air:

ADR/RID: 9, II IMDG: class 9/UN 3316/PG II UN-No.: 3316 Name: CHEMICAL KIT Marine Pollutant: No

Severe Marine Pollutant: No

Transport data applies to the COMPLETE KIT!

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

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

H315: Causes skin irritation.

H318: Causes serious eye damage.

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.