



### HI 93752A-MG Mg Magnesium Buffer Reagent A Safety Data Sheet 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 93752A-0 Mg Magnesium Buffer Reagent A Additional Product Codes: HI 93752A-0 MG

Application: Determination of Magnesium 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

Irritating to eyes and skin.

**SECTION 3:** COMPOSITION AND COMPONENT INFORMATION

Hydrochloric Acid Tris(Hydroxymethyl)Aminometha Component:

EC-No.: 231-595-7

CAS-No.: 7647-01-0 201-064-4 77-86-1

С Hazard:

Χi

Phrases: R: 34-37

R: 36/38

Content: > 1% - < 10%

> 25% - < 35%

FIRST AID MEASURES **SECTION 4:** 

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: Immediately make victim drink plenty of water. Summon doctor if pain persists.

General Information:

FIRE-FIGHTING MEASURES **SECTION 5:** 

Suitable Extinguishing Media:

Water Spray, Foam, Dry Powder, Carbon Dioxide

Special Risks:

Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in the event of fire: Hydrochloric Acid, Nitrogen 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.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Do not inhale vapors/aerosols.

**Environmental Precautions:** 

NA

Additional Notes:

Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.

<u>SECTION 7:</u> HANDLING AND STORAGE

Handling: Storage:

Cannot be stored indefinitely.

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

**SECTION 8:** EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredients:

HYDROGEN CHLORIDE

EXPOSURE LIMITS - GERMANY (max. workplace conc.)

Name: Hydrogen Chloride Value: 5 mL/m³; 7.6 mg/m³

Peak limit I local irritating substance

Embryotoxic cat. C no risk expected by maintaining TLV EXPOSURE LIMITS - EC

Source Type Value

OEL OEL 8 mg/m³, 5 ppm

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection: Protective Gloves: Eye Protection:

Required when vapors/aerosols are Rubber or plastic Goggles or face mask

generated.

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

**SECTION 9:** PHYSICAL/CHEMICAL PROPERTIES

Colorless liquid Odor: Appearance: Odorless Density at 20° C: 1.1 g/cm3 Melting Point: NA **Boiling Point:** ND Solubility: Soluble Flash Point: pH at 20° C: Explosion Limit: NA NA 8.4

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. Oxidizing agents

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 Tris(hydroxymethyl)aminomethane as the pure substance:

Acute toxicity

LD50 (oral, rat): 5900 mg/kg. Subacute to chronic toxicity

No impairment of reproductive performance suspected.

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Hydrochloric acid as the pure substance:

Acute toxicity

LC50 (inhalation, rat): 3124 ppm(V) /1 h (calculated on the pure substance).

Subacute to chronic toxicity

Applicable to the toxicologically determinant component:

An embryotoxic effect need not be feared when the threshold limit value is observed.

In Case of Inhalation:

In Case of Skin Contact: Irritations. Cannot be excluded: dermatitis. Degreasing effect on the skin, possibly followed by secondary

inflammation.

In Case of Eye Contact: Irritations. Risk of corneal clouding

In Case of Ingestion: nausea, vomiting, agitation, confusion, cyanosis, collapse, spasms, muscular symptoms, coma. Risk of aspiration

upon vomiting. Effect increased by: ethanol.

Further Data: The product should be handled with the usual care when dealing with chemicals. Property of this product must be

anticipated on the basis from the components of the preparation:

#### **SECTION 12: ECOLOGICAL INFORMATION**

Quantitative data on the ecological effect of this product is not available.

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Tris(hydroxymethyl)aminomethane as the pure substance:

Biologic degradation:

(in analogy to similar compounds): Readily biodegradable. Biodegradation: 89 % /28 d (hydrochloride).

Behavior in environmental compartments:

Distribution: log p(o/w): -1.56 (calculated).

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

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Hydrochloric acid as the pure substance:

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

Further ecologic data:

The following applies to HCl in general: Harmful effect on aquatic organisms. Harmful effect due to pH shift. Biological effects: hydrochloric acid (including such due to reaction): lethal for fish as from 25 mg/L; Leuciscus idus LC50: 862 mg/L (1N-solution). Harmful effects begin at: plants 6 mg/L. Does not cause biological oxygen deficit.

Further Data: Do not allow to enter waters, waste water, or soil!

#### 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:

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



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NA: Not Applicable

**SECTION 15: REGULATORY INFORMATION** 

Labeling according to EC Directives:

Symbol: Xi: Irritant

R-phrases: 36/38: Irritating to eyes and skin.

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

protective clothing.

Contains:

**SECTION 16: OTHER INFORMATION** 

Text of R-phrases under Section 3 Revision Information Legend

34: Causes burns.

36/38: Irritating to eyes and skin.

37: Irritating to respiratory system

Revision Date:

Supersedes edition of:

Supersedes edition of: 2008-01-03 ND: Not Determined

2008-12-01

Reason for revision: REACH Compliance and General Update

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.