



HI 93752A-MG
Mg Magnesium Buffer Reagent A
Safety Data Sheet

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

Revision Date: 2012-06-01
Reason for Revision: Reviewed Only

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

Component:	Hydrochloric Acid	Tris(Hydroxymethyl)Aminomethane
EC-No.:	231-595-7	e
CAS-No.:	7647-01-0	201-064-4
Hazard:	C	77-86-1
Phrases:	R: 34-37	Xi
Content:	> 1% - < 10%	R: 36/38
		> 25% - < 35%

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: Immediately make victim drink plenty of water. Summon doctor if pain persists.
General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

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.

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.

SECTION 7: HANDLING AND STORAGE

Handling:

Cannot be stored indefinitely.

Storage:

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

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Type	Value	Source	Type	Value	Source
Hydrochloric Acid					
TWA (8hr)	8 mg/m ³	Belgium	Ceiling	2 ppm	Canada (Ontario)
Ceiling	5 ppm	Canada (Quebec)	TWA (15min)	7.6 mg/m ³	France
TWA (8hr)	3 mg/m ³	Germany	TWA (8hr)	7 mg/m ³	Greece
TWA (8hr)	8 mg/m ³	Hungary	TWA (8hr)	8 mg/m ³	Italy
TWA (8hr)	8 mg/m ³	Netherlands	TWA (8hr)	5 mg/m ³	Poland
Ceiling	2 ppm	Portugal	TWA (8hr)	8 mg/m ³	Romania
TWA (8hr)	7.6 mg/m ³	Spain	TWA (8hr)	2 mg/m ³	UK
Ceiling	2 ppm	USA (ACGIH)	Ceiling	5 ppm	USA (OSHA)

Engineering:

Maintain general industrial hygiene practice.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection:

Required when vapors/aerosols are generated.

Protective Gloves:

Rubber or plastic

Eye Protection:

Goggles or face mask

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Colorless liquid	Odor:	Odorless	Density at 20°C:	1.1 g/cm ³
Melting Point:	NA	Boiling Point:	ND	Solubility:	Soluble
pH at 20°C:	8.4	Explosion Limit:	NA	Flash Point:	NA
Thermal Decomp.:	NA				

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

In the event of fire: See section 5.

Substances to be Avoided:

Oxidizing agents

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

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

Potential Health Effects:

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

Eye Contact: Irritations. Risk of corneal clouding

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.

Component Toxicity

Acute Toxicity:

Chronic Toxicity:

Not Available

Hydrochloric Acid

LC50: Inhalation - Rat - 1562 ppm

LD50: Oral - Rabbit - 900 mg/kg

Additional Data:

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:

Subacute to chronic toxicity

Applicable to the toxicologically determinant component:

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

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:

Not subject to transport regulations.

Sea:

Not subject to transport regulations.

Air:

Not subject to transport regulations.

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.

SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3

34: Causes burns.
 36/38: Irritating to eyes and skin.
 37: Irritating to respiratory system

Revision Information

Revision Date: 2012-06-01
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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.