



HI 70464 1N HCI Titration Solution Safety Data Sheet

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

Revision Date: 2009-06-10

Reason for Revision: 29 CFR 1910.1200 and SOR/88-66 Compliance

<u>SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY</u>

Product Name: HI 70464 1N HCI Titration Solution

Application: Titration Reagent 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)

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

E-mail Address: tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

International Emergency Contact Information:

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.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: Hydrochloric Acid

EC-No.: 231-595-7

Hazard: C

CAS-No.:

Phrases: R: 34-37

Content: > 1% - < 10%

SECTION 4: FIRST AID MEASURES

7647-01-0

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

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. Render harmless: neutralize with diluted sodium hydroxide solution or by throwing on lime, lime sand, or sodium carbonate.

SECTION 7: HANDLING AND STORAGE

Handling: Storage:

Cannot be stored indefinitely. Tightly closed. In a well-ventilated place. At +15°C to +25°C.

<u>SECTION 8:</u>	EXPOSURE CONTROL/PERSONAL PROTECTION
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Туре	Value	Source	Туре	Value	Source		
Hydrochloric Acid							
TWA (8hr)	8 mg/m³	Belgium	Ceiling	2 ppm	Canada (Ontario)		
Ceiling	5 ppm	Canada (Quebec)	TWA (15min)	7.6 mg/m³	France		
TWA (8hr)	3 mg/m³	Germany	TWA (8hr)	7 mg/m³	Greece		
TWA (8hr)	8 mg/m³	Hungary	TWA (8hr)	8 mg/m³	Italy		
TWA (8hr)	8 mg/m³	Netherlands	TWA (8hr)	5 mg/m³	Poland		
Ceiling	2 ppm	Portugal	TWA (8hr)	8 mg/m³	Romania		
TWA (8hr)	7.6 mg/m³	Spain	TWA (8hr)	2 mg/m³	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: Protective Gloves: Eye Protection:

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

Industrial Hygiene:

Change contaminated clothing. Wash hands after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Colorless liquid Odor: Density at 20° C: 0.99 g/cm3 Appearance: Odorless Melting Point: NA **Boiling Point:** > 100 °C Solubility: Soluble pH at 20° C: Explosion Limit: Flash Point: NA < 2 NA

Thermal Decomp.: NA



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<u>SECTION 10:</u> 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:

Metals

Not Available

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

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

Potential Health Effects:

Skin Contact: Slight irritations. **Eye Contact:** Slight irritations.

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

Component Toxicity

Acute Toxicity: Chronic Toxicity:

Hydrochloric Acid

LC50: Inhalation - Rat - 1562 ppm **LD50:** Oral - Rabbit - 900 mg/kg

Additional Data:

Not Available

SECTION 12: ECOLOGICAL INFORMATION

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

APPLICABLE TO PARTIAL COMPONENT:

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: No ecological problems are to be expected when the product is handled and used with due care and attention.

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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ND: Not Determined

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SECTION 15: REGULATORY INFORMATION

Labeling according to EC Directives:

Non-hazardous according to Directives 67/548/EEC and 1999/45/EC.

SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3 Revision Information Legend

Revision Date:

34: Causes burns

37: Irritating to respiratory system

Supersedes edition of: 2008-12-01

Reason for revision: 29 CFR 1910.1200 and SOR/88-66

2009-06-10

Compliance

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.