



Pump Calibration Solution

Safety Data Sheet

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

Revision Date: 20123-07-11

Reason for Revision: Regulation (EC) No. 1272/2008 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 84442-55 Pump Calibration Solution **Application:** Determination of Titratable Alkalinity

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:

SECTION 2: HAZARD IDENTIFICATION

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.

Non-hazardous product as specified in Regulation (EC) 1272/2008.

According to Directives 67/548/EEC and 1999/45/EC:

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

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component: EC No: CAS No: Hazard Class: Phrases: Concentration: H314 Sodium hydroxide 215-185-5 1310-73-2 Skin Corr. 1A < 0.5% R: 35 Sodium Carbonate 207-838-8 497-19-8 Eye Irrit. 2 HI319 < 1 %

R: 36

SECTION 4: FIRST AID MEASURES

After Inhalation: Fresh air. Summon doctor.

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

After Eye Contact: Rinse out with plenty of water with the eyelid held wide open.

After Swallowing: Drink plenty of water. Seek medical advice.

General Information: Not available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam.

Special Risks:

Non-combustible. Ambient fire may liberate hazardous vapors.

Special Protective Equipment:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Additional Information:

None





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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

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

Environmental Precautions:

None

Type

Additional Notes:

Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation.

SECTION 7: HANDLING AND STORAGE

Handling: Storage:

Accessible only for authorized persons.

Value

Tightly closed. Store at room temperature (+15°C to +25°C).

Source

Value

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Source

. 71			Type	Value	Odurce
Sodium Carbonate, Anhydrous					
TWA (8hr)	1 mg/m³	Romania			
Sodium Hydroxide					
Ceiling	2 mg/m³	Belgium	Ceiling	2 mg/m³	Canada (Ontario)
Ceiling	2 mg/m³	Canada (Quebec)	TWA (8hr)	2 mg/m³	France
TWA (8hr)	2 mg/m³	Greece	TWA (8hr)	2 mg/m³	Hungary
TWA (8hr)	0.5 mg/m ³	Poland	Ceiling	2 mg/m³	Portugal
TWA (8hr)	1 mg/m³	Romania	Ceiling	2 mg/m³	Spain
TWA (15min)	2 mg/m³	UK	Ceiling	2 mg/m³	USA (ACGIH)
TWA (8hr)	2 mg/m³	USA (OSHA)			

Type

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. Work under hood.

Rubber or plastic Goggles or face mask

Industrial Hygiene:

Immediately change contaminated clothing. Use the safety shower and eye bath. Apply skin-protective barrier cream. Wash hands and face after working with substance.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Colorless liquid Odorless Density at 20°C: 1.00 g/cm3 Solubility: Melting Point: ND **Boiling Point:** ND Soluble pH at 20°C: ~8 **Explosion Limit:** NA Flash Point: NA

Thermal Decomp.: NA



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SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

NA

Substances to be Avoided:

None

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

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

Potential Health Effects:

Skin Contact: Irritations
Eye Contact: Irritations

Ingestion: Irritations of mouth, mucous membrane, esophagus and gastrointestinal tract.Further Data: The product should be handled with the care usual when dealing with chemicals.

Component Toxicity

Acute Toxicity: Chronic Toxicity:

Not Available

Sodium Carbonate, Anhydrous

LC50: Inhalation - Rat - 4066 mg/L **LD50:** Oral - Rat - 4090 mg/kg

Additional Data:

Not Available

SECTION 12: ECOLOGICAL INFORMATION

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

Ecotoxic effects:

Biological effects:

Toxic effect on fish and plankton. Harmful effect due to pH shift. Does not cause biological oxygen deficit. Neutralization possible in waste water treatment plants.

Fish toxicity:

LC50: 189 mg/l (for sol.1N).

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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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

SECTION 16: OTHER INFORMATION

Text of phrases under Section 3

R35: Causes severe burns.

H314: Causes severe skin burns and eye damage.

R36: Irritating to eyes.

H319: Causes serious eye damage

Revision Information

Revision Date: 20123-07-11

Supersedes edition of: 2012-04-24

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.