

HI 70461AL PCA300 Indicator Solution Safety Data Sheet

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

Revision Date: 2013-08-21

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

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 70461AL PCA300 Indicator Solution Additional Product Codes: HI 70451AL

Application: Determination of Chlorine 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

Causes severe skin burns and eye damage.

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

Classification: Skin Corrosion (Category 1B)

Signal Word: Danger

Pictograms:

Hazard H314: Causes severe skin burns and eye damage.

Statements:

Precaution P280: Wear protective gloves/protective clothing/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: C: Corrosive R-phrases: 34: Causes burns.

S-phrases: 26-36/37/39-45: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear

suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical

advice immediately (show label where possible).

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

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

 Sodium hydroxide
 215-185-5
 1310-73-2
 Skin Corr. 1A
 H314
 > 2% - < 5%</td>

 C
 R: 35

SECTION 4: FIRST AID MEASURES

After Inhalation: Remove to fresh air. Give artificial respiration if victim is not breathing. Give oxygen if breathing is difficult.

After Skin Contact: Flush affected area with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call

a physician

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: Wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting. Do not

attempt to neutralize.

General Information: Remove contaminated, soaked clothing immediately and dispose of safely.



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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. Hazardous Decomposition Products: Sodium/Sodium 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. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

Environmental Precautions:

Do not discharge into the drains/surface waters/groundwater.

Additional Notes:

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

Render harmless: neutralize with diluted sulfuric acid.

SECTION 7: HANDLING AND STORAGE

Handling: Storage:

Cannot be stored indefinitely. Accessible only for authorized persons.

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

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Туре	Value	Source	Туре	Value	Source
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/m³	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)			

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:

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.



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PHYSICAL/CHEMICAL PROPERTIES **SECTION 9:**

Appearance: Colorless liquid Odor: Odorless Density at 20°C: 1.15 g/cm3 **Melting Point:** ND **Boiling Point:** NΠ Solubility: Soluble pH at 20°C: > 12 **Explosion Limit:** NA Flash Point: NA

Thermal Decomp.: NA

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided: Hazardous Decomposition Products:

Strong Heating In the event of fire: See section 5. Hazardous Polymerization: Substances to be Avoided:

Will not occur. Strong oxidizing agents, strong acids, organic materials

Further Information:

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

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

Component Toxicity

Chronic Toxicity: Acute Toxicity:

Not Available Not Available

Additional Data:

APPLICABLE TO MAIN COMPONENT:

The following applies to Sodium Hydroxide, as the pure substance:

Acute toxicity

LD50 Intraperitoneal, mouse: 40 mg/kg

Irritation data

Skin, Rabbit: 500 mg/24 hr Remarks: Severe irritation effect Eyes, Rabbit: 0.5 mg / 24 hr Remarks: Severe irritation effect Signs and symptoms of exposure

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Chronic exposure - mutagen Cytogenetic analysis

Hamster: 10 mmol/L. Cell type: lung

Hamster: 16 mmol/L. Cell type: ovary



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SECTION 12: ECOLOGICAL INFORMATION

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

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Sodium Hydroxide – as the pure substance:

Biologic degradation:

Methods for the determination of biodegradability are not applicable to inorganic substances.

Behavior in environmental compartments:

Concentration in organisms is not to be expected.

Ecotoxic effects:

Biological effects: Harmful effect on aquatic organisms. Toxic effect on fish and plankton. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Does not cause biological oxygen deficit. Neutralization possible in waste water treatment plants.

Fish toxicity: Onchorhynchus mykiss LC50: 45.4 mg/L /96 h (in hard water); L. macrochirus LC50: 99 mg/L /48 h;

Fish toxicitý: fish LC50: 189 mg/L (1N solution = 40 g/L). Daphnia toxicity: Daphnia magna EC50: 76 mg/L /24 h.

Further Data: Do not allow to enter waters, waste waters, 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 (ADR/RID): Sea (IMDG): Air (ICAO/IATA):

UN No.: 1824 1824 1824

Proper Shipping Name: Sodium hydroxide solution Sodium hydroxide solution Sodium hydroxide solution

 Class (Sub Risk):
 8
 8
 8

 Packing Group:
 III
 III
 III

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 Revision Information

H314: Causes severe skin burns and eye damage. Revision Date: 2013-08-21 R35: Causes severe burns. Supersedes edition of: 2012-05-25

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.