

Hanna Instruments S.R.L.

HI70060 - pH 6.00 Buffer Solution

Safety data sheet according to U. SOR/88-66	S.A. Federal Hazcom 2012 and	d Canadian Regulation		
SECTION 1. Identification of the su	bstance/mixture and of the com	ipany/undertaking.		
1.1. Product identifier.				
Code. Product name.	HI70060 pH 6.00 Buffer Solution			
1.2. Relevant identified uses of the substance or mixture and uses advised against.				
Intended use.	Calibration of pH Electrodes			
1.3. Details of the supplier of the safety data sheet.				
Name. Full address. District and Country.	Hanna Instruments S.R.L. str. Hanna Nr 1 457260 loc. Nusfalau Romania Tel. (+40) 260607700	(Salaj)		
e-mail address of the competent person. responsible for the Safety Data Sheet.	Fax. (+40) 260607700 sds@hannainst.com			
Product distribution by:	Hanna Intruments, Inc - 584 Park East, W Technical Service Contact Information: +			
1.4. Emergency telephone number.				
For urgent inquiries refer to.	USA Emergency Contact Information: +1 hours/365 days - International Emergenc CHEMTREC 24hours/365 days	I-800-424-9300 - CHEMTREC 24 cy Contact Information: +1-703-527-3887 -		
SECTION 2. Hazards identification.				
2.1. Classification of the substance or mixture.				
The product is not classified as hazardous pursu- CFR 1910.1200).	ant to the provisions set forth in OSHA Hazard	Communication Standard (HCS) (29		
Hazard pictograms: Signal words:				
Hazard statements:				
Precautionary statements: Prevention:				

Prevention: --Response: --Storage: --Disposal: --

2.2. Other hazards.

Information not available.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.



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SECTION 3. Composition/information on ingredients./>>

3.2. Mixtures.

The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200).

SECTION 4. First aid measures.

4.1. Description of first aid measures.

Not specifically necessary. Observance of good industrial hygiene is recommended.

- **4.2. Most important symptoms and effects, both acute and delayed.** No episodes of damage to health ascribable to the product have been reported.
- **4.3. Indication of any immediate medical attention and special treatment needed.** Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters. GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

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SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities.

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Information not available.

8.2. Exposure controls.

Comply with the safety measures usually applied when handling chemical substances. HAND PROTECTION None required. SKIN PROTECTION None required. EYE PROTECTION None required. ENVIRONMENTAL EXPOSURE CONTROLS. The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance		liquid	-	
Colour		colourless		
Odour		odourless		
Odour threshold.		Not availab	le.	
pH.		6		
Melting point / freezing point.		Not availab	le.	
Initial boiling point.		Not available.		
Boiling range.		Not availab	ole.	
Flash point.	>	93	°C.	(199,4 °F)
Evaporation rate		Not availab	ole.	
Flammability (solid, gas)		Not availab	ole.	
Lower inflammability limit.		Not availab	le.	
Upper inflammability limit.		Not availab	le.	
Lower explosive limit.		Not availab	le.	
Upper explosive limit.		Not availab	le.	
Vapour pressure.		Not availab	le.	
Vapour density		Not availab	le.	
Relative density.		1.00		
Solubility		soluble in v	vater	
Partition coefficient: n-octanol/water		Not availab	le.	
Auto-ignition temperature.		Not availab	le.	
Decomposition temperature.		Not availab	ole.	
Viscosity		Not availab	ole.	
Explosive properties		Not availab	ole.	
Oxidising properties		Not availab	le.	
9.2. Other information.				
Total solids (250°C / 482°F)		0,79 %		

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

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SECTION 10. Stability and reactivity. ... / >>

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture: LC50 (Inhalation - mists / powders) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture: Not classified (no significant component). Not classified (no significant component). Not classified (no significant component). Not classified (no significant component).

SKIN CORROSION / IRRITATION. Does not meet the classification criteria for this hazard class.

SERIOUS EYE DAMAGE / IRRITATION. Does not meet the classification criteria for this hazard class.

RESPIRATORY OR SKIN SENSITISATION. Does not meet the classification criteria for this hazard class.

GERM CELL MUTAGENICITY. Does not meet the classification criteria for this hazard class.

CARCINOGENICITY. Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY. Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE. Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE. Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD. Does not meet the classification criteria for this hazard class.

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity. Information not available.



SECTION 12. Ecological information. ... / >>

12.2. Persistence and degradability.

12.3. Bioaccumulative potential. Information not available.

12.4. Mobility in soil. Information not available.

12.5. Results of PBT and vPvB assessment. Information not available.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number.

Not applicable.

14.2. UN proper shipping name.

Not applicable.

14.3. Transport hazard class(es).

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

U.S. Federal Regulations.



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SECTION 15. Regulatory information. ... / >>

TSCA:

All components are listed on TSCA Inventory.

Clean Air Act Section 112(b): No component(s) listed.

Clean Air Act Section 602 Class I Substances: No component(s) listed.

Clean Air Act Section 602 Class II Substances: No component(s) listed.

<u>Clean Water Act – Priority Pollutants:</u> No component(s) listed.

Clean Water Act – Toxic Pollutants: No component(s) listed.

DEA List I Chemicals (Precursor Chemicals): No component(s) listed.

DEA List II Chemicals (Essential Chemicals): No component(s) listed.

EPA List of Lists: 313 Category Code: No component(s) listed.

EPCRA 302 EHS TPQ: No component(s) listed.

EPCRA 304 EHS RQ: No component(s) listed.

CERCLA RQ: 1310-73-2

SODIUM HYDROXIDE

EPCRA 313 TRI: No component(s) listed.

RCRA Code: No component(s) listed.

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations.

Massachussetts: 1310-73-2 SODIUM HYDROXIDE

Minnesota: 1310-73-2 SODIUM HYDROXIDE

1310-73-2	SODIUM HYDROXIDE
New York:	
1310-73-2	SODIUM HYDROXIDE

Pennsylvania: 1310-73-2 SODIUM HYDROXIDE

California: 1310-73-2 SODIUM HYDROXIDE

Proposition 65:

This product does not contain any substances know to the State of California to cause cancer, reproductive harm or birth defects.

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None.



SECTION 15. Regulatory information. ... / >>

Substances subject to the Rotterdam Convention: None.

Substances subject to the Stockholm Convention: None.

Candadian WHMIS. Information not available.

SECTION 16. Other information.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act



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SECTION 16. Other information. />>

- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.

- Pennsylvania, Hazardous Substance List, Chapter 323

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

⁻ OSHA website