



Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: pH 10 Buffer

Product Number: 35653-03

Other Identifying Product Numbers:

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

1.3. Details of the Supplier of the Safety Data Sheet

Company: Cole-Parmer Instrument Company

Address: 625 EAST BUNKER COURT

VERNON HILLS, IL 60061 USA

Telephone: 800-323-9340

1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300

CHEMTREC (International) 1+ 703-527-3887

SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

This product is not categorized as hazardous in any GHS hazard class.

2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.

Safety Data Sheet

Hazard Statements: None Required.

Precautionary Statements: None Required.

2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	H ₂ O	18.01 g/mol	7732-18-5	99.04
Sodium Carbonate	Na ₂ CO ₃	105.98 g/mol	497-19-8	0.53
Sodium Bicarbonate	NaHCO ₃	84.00 g/mol	144-55-8	0.40
Sodium Hydroxide	NaOH	39.99 g/mol	1310-73-2	< 0.1
Sodium Azide	NaN ₃	65.00 g/mol	26628-22-8	< 0.1
Proprietary	Proprietary	Data not available.	Proprietary	< 0.1
Proprietary	Proprietary	Data not available.	Proprietary	< 0.1

SECTION 4: First-Aid Measures

4.1. General First Aid Information

Eye Contact: May cause slight irritation.

Inhalation: Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: May cause slight irritation.

Ingestion: Dilute with water or milk. Call a physician if necessary.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Does not present any significant health hazards. After contact with skin, wash immediately with plenty of water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation.

4.3. Medical Attention or Special Treatment Needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Di with water or milk. Call a physician if necessary.



Safety Data Sheet

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate PPE for the size and nature of the spill. As a general rule, wear safety glasses and gloves.

6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material and treat as normal refuse. Small amounts of the liquid may be flushed to the drain with excess water. Always dispose of in accordance with local regulations.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

Safety Data Sheet

SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Sodium Hydroxide (1310-73-2)	TLV-Ceiling	USA	2 mg/m ³ Ceiling	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Sodium Hydroxide (1310-73-2)	TWA	USA	2 mg/m ³ TWA	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Sodium Hydroxide (1310-73-2)	TLV-Ceiling	USA	"2 mg/m ³ Ceiling" As Sodium hydroxide [1310-73-2]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Sodium Hydroxide (1310-73-2)	TWA	USA	"2 mg/m ³ TWA" As Sodium hydroxide [1310-73-2]	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Sodium Hydroxide (1310-73-2)	TLV-Ceiling	USA	"2 mg/m ³ Ceiling" As Sodium hydroxide [1310-73-2]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Sodium Hydroxide (1310-73-2)	TWA	USA	"2 mg/m ³ TWA" As Sodium hydroxide [1310-73-2]	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Sodium Hydroxide (1310-73-2)	TLV-Ceiling	USA	"2 mg/m ³ Ceiling" As Sodium hydroxide [1310-73-2]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Sodium Hydroxide (1310-73-2)	TWA	USA	"2 mg/m ³ TWA" As Sodium hydroxide [1310-73-2]	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Sodium Azide (26628-22-8)	TLV-Ceiling	USA	"0.29 mg/m ³ Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)" As Sodium azide [26628-22-8]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Sodium Azide (26628-22-8)	TLV-Ceiling	USA	"0.29 mg/m ³ Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)" As Sodium azide [26628-22-8]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Sodium Azide (26628-22-8)	TLV-Ceiling	USA	"0.29 mg/m ³ Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)" As Sodium azide [26628-22-8]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)

Safety Data Sheet

Sodium Azide (26628-22-8)	TLV-Ceiling	USA	"0.29 mg/m ³ Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)" As Sodium azide [26628-22-8]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Sodium Azide (26628-22-8)	TLV-Ceiling	USA	0.29 mg/m ³ Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Sodium Azide (26628-22-8)	TLV-Ceiling	USA	"0.29 mg/m ³ Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)" As Sodium azide [26628-22-8]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Sodium Azide (26628-22-8)	TLV-Ceiling	USA	"0.29 mg/m ³ Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)" As Sodium azide [26628-22-8]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)
Sodium Azide (26628-22-8)	TLV-Ceiling	USA	"0.29 mg/m ³ Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)" As Sodium azide [26628-22-8]	ACGIH - Threshold Limit Values - Ceilings (TLV-C)

8.2. Exposure Controls

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

8.3. Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

Safety Data Sheet

SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance: Blue liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: 10.00

Melting/Freezing Point: Data not available.

Initial Boiling Point/Range: Data not available.

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.0

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

Decomposition Temperature: Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: Data not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Acids

10.4. Hazardous Decomposition Products

Will not occur.

Safety Data Sheet

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not applicable.

Acute Toxicity - Dermal Exposure:

Not applicable.

Acute Toxicity - Inhalation Exposure:

Not applicable.

Acute Toxicity - Other Information:

LD50, Oral, Rat: 4090 mg/kg (Sodium Carbonate), 4220 mg/kg (Sodium Bicarbonate), details of toxic effects not reported other than lethal dose value.

Skin Corrosion and Irritation:

Not applicable.

Serious Eye Damage and Irritation:

Not applicable.

Respiratory Sensitization:

Not applicable.

Skin Sensitization:

Not applicable.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

Reproductive Toxicity:

Not applicable.

Specific Target Organ Toxicity from Single Exposure:

Not applicable.

Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

Aspiration Hazard:

Not applicable.

Additional Toxicology Information:

Data not available.



Safety Data Sheet

SECTION 12: Ecological Information

12.1. Ecotoxicity

Not applicable.

12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.

12.4. Mobility in Soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

SECTION 14: Transportation Information

14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Not regulated according to DOT Regulations.



Safety Data Sheet

14.2. Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Sodium Azide (CAS # 26628-22-8): "1000 lb EPCRA RQ" As Sodium azide (Na(N₃)) [26628-22-8]

Sodium Azide (CAS # 26628-22-8): "500 lb TPQ (this material is a reactive solid, the TPQ does not default to 10000 pounds for non-powder, non-molten, non-solution form)" As Sodium azide (Na(N₃)) [26628-22-8]

Sodium Azide (CAS # 26628-22-8): 1000 lb EPCRA RQ

Sodium Azide (CAS # 26628-22-8): 500 lb TPQ (this material is a reactive solid, the TPQ does not default to 10000 pounds for non-powder, non-molten, non-solution form)



Safety Data Sheet

15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Sodium Hydroxide (CAS # 1310-73-2): "1000 lb final RQ"
Sodium Hydroxide (CAS # 1310-73-2): 1000 lb final RQ
Sodium Hydroxide (CAS # 1310-73-2): 454 kg final RQ
Sodium Hydroxide (CAS # 1310-73-2): 454 kg final RQ" As Sodium hydroxide [1310-73-2]
Sodium Azide (CAS # 26628-22-8): "1000 lb final RQ"
Sodium Azide (CAS # 26628-22-8): 1000 lb final RQ
Sodium Azide (CAS # 26628-22-8): 454 kg final RQ
Sodium Azide (CAS # 26628-22-8): 454 kg final RQ" As Sodium azide [26628-22-8]

15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Sodium Azide (CAS # 26628-22-8): "1.0 % de minimis concentration" As Sodium azide [26628-22-8]
Sodium Azide (CAS # 26628-22-8): 1.0 % de minimis concentration

15.5. Massachusetts Right-to-Know Substance List

Sodium Hydroxide (CAS # 1310-73-2): "Present" As Sodium hydroxide [1310-73-2]
Sodium Hydroxide (CAS # 1310-73-2): Present
Sodium Azide (CAS # 26628-22-8): "Extraordinarily hazardous" As Sodium azide [26628-22-8]
Sodium Azide (CAS # 26628-22-8): Extraordinarily hazardous

15.6. Pennsylvania Right-to-Know Hazardous Substances

Sodium Hydroxide (CAS # 1310-73-2): "Environmental hazard" As Sodium hydroxide (Na(OH)) [1310-73-2]
Sodium Hydroxide (CAS # 1310-73-2): Environmental hazard
Sodium Azide (CAS # 26628-22-8): "Environmental hazard" As Sodium azide (Na(N3)) [26628-22-8]
Sodium Azide (CAS # 26628-22-8): Environmental hazard
Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]
Water (CAS # 7732-18-5): Present

15.7. New Jersey Worker and Community Right-to-Know Components

Sodium Hydroxide (CAS # 1310-73-2): "corrosive" As Sodium hydroxide [1310-73-2]
Sodium Hydroxide (CAS # 1310-73-2): "sn 1706" As Sodium hydroxide [1310-73-2]
Sodium Hydroxide (CAS # 1310-73-2): corrosive
Sodium Hydroxide (CAS # 1310-73-2): sn 1706
Sodium Azide (CAS # 26628-22-8): "reactive - third degree" As Sodium azide [26628-22-8]
Sodium Azide (CAS # 26628-22-8): "SN 1684 500 lb TPQ" As Sodium azide (Na(N3)) [26628-22-8]
Sodium Azide (CAS # 26628-22-8): "sn 1684" As Sodium azide [26628-22-8]
Sodium Azide (CAS # 26628-22-8): reactive - third degree
Sodium Azide (CAS # 26628-22-8): sn 1684
Sodium Azide (CAS # 26628-22-8): SN 1684 500 lb TPQ

15.8. California Proposition 65

Not listed.



Safety Data Sheet

15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Sodium Hydroxide (CAS # 1310-73-2): "Present" As Sodium hydroxide [1310-73-2] (DSL)

Sodium Hydroxide (CAS # 1310-73-2): Present (DSL)

Sodium Bicarbonate (CAS # 144-55-8): "Present" As Sodium bicarbonate [144-55-8] (DSL)

Sodium Bicarbonate (CAS # 144-55-8): Present (DSL)

Sodium Azide (CAS # 26628-22-8): "Present" As Sodium azide [26628-22-8] (DSL)

Sodium Azide (CAS # 26628-22-8): Present (DSL)

Sodium Carbonate (CAS # 497-19-8): "Present" As Sodium carbonate [497-19-8] (DSL)

Sodium Carbonate (CAS # 497-19-8): Present (DSL)

Water (CAS # 7732-18-5): "Present" As Water [7732-18-5] (DSL)

Water (CAS # 7732-18-5): Present (DSL)

15.10. United States of America Toxic Substances Control Act (TSCA) List

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Sodium Hydroxide (CAS # 1310-73-2): "Present (ACTIVE)" As Sodium hydroxide (Na(OH)) [1310-73-2]

Sodium Hydroxide (CAS # 1310-73-2): Present (ACTIVE)

Sodium Bicarbonate (CAS # 144-55-8): "Present (ACTIVE)" As Carbonic acid sodium salt (1:1) [144-55-8]

Sodium Bicarbonate (CAS # 144-55-8): Present (ACTIVE)

Sodium Azide (CAS # 26628-22-8): "Present (ACTIVE)" As Sodium azide (Na(N₃)) [26628-22-8]

Sodium Azide (CAS # 26628-22-8): Present (ACTIVE)

Sodium Carbonate (CAS # 497-19-8): "Present (ACTIVE)" As Carbonic acid sodium salt (1:2) [497-19-8]

Sodium Carbonate (CAS # 497-19-8): Present (ACTIVE)

Water (CAS # 7732-18-5): "Present [XU] (ACTIVE)" As Water [7732-18-5]

Water (CAS # 7732-18-5): Present [XU] (ACTIVE)

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Sodium Hydroxide (CAS # 1310-73-2): "215-185-5" As Sodium hydroxide [1310-73-2]

Sodium Hydroxide (CAS # 1310-73-2): 215-185-5

Sodium Bicarbonate (CAS # 144-55-8): "205-633-8" As Sodium hydrogencarbonate [144-55-8]

Sodium Bicarbonate (CAS # 144-55-8): 205-633-8

Sodium Bicarbonate (CAS # 144-55-8): 231-420-4

Sodium Azide (CAS # 26628-22-8): "247-852-1" As Sodium azide [26628-22-8]

Sodium Azide (CAS # 26628-22-8): 247-852-1

Sodium Carbonate (CAS # 497-19-8): "207-838-8" As Disodium carbonate [497-19-8]

Sodium Carbonate (CAS # 497-19-8): 207-838-8

Sodium Carbonate (CAS # 497-19-8): 231-420-4

Water (CAS # 7732-18-5): "231-791-2" As Water [7732-18-5]

Water (CAS # 7732-18-5): 231-791-2

Safety Data Sheet

SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

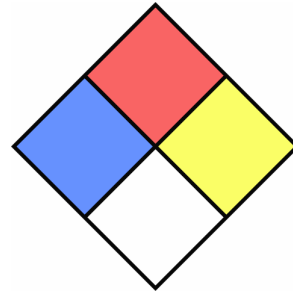
16.3. National Fire Protection Association (NFPA) Rating

Health:

Flammability:

Reactivity:

Special Hazard:



16.4. Document Revision

Last Revision Date: 2025-04-02

DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and COLE-PARMER INSTRUMENT COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.