

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name pH 7.00 Buffer Solution

Other means of identification

Product Code(s) 2881

Recommended use of the chemical and restrictions on use

Recommended Use Use as a laboratory reagent. Laboratory chemicals. Industrial (not for food or food contact use).

Details of the supplier of the safety data sheet

Manufacturer Address

LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620 USA
T 410-778-3100
F 410-778-9748

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL): USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

EMERGENCY OVERVIEW

Appearance Clear, colorless **Physical state** liquid **Odor** Thyme-like

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Chemical name | CAS No | Weight-% |
|--------------------------------|-----------|----------|
| Sodium hydroxide | 1310-73-2 | 0.1 |
| Dihydrogen potassium phosphate | 7778-77-0 | 0.7 |
| Water | 7732-18-5 | to 100% |

4. FIRST AID MEASURES

First Aid Measures

| | |
|--|---|
| General advice | Do not get in eyes, on skin, or on clothing. Show this safety data sheet to the doctor in attendance. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. |
| Skin contact | Wash skin with soap and water. Consult a physician if necessary. |
| Inhalation | Remove to fresh air. |
| Ingestion | Drink 1 or 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person. |
| <u>Self-protection of the first aider</u> | Use personal protection recommended in Section 8. |

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical. Carbon dioxide (CO₂). Water spray, fog or alcohol-resistant foam.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|----------------------------------|---|
| Personal precautions | Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. |
| Environmental precautions | See Section 12 for additional Ecological Information. |

Methods and material for containment and cleaning up

| | |
|--------------------------------|--|
| Methods for containment | Dispose of contents/containers in accordance with local regulations. |
| Methods for cleaning up | After cleaning, flush away traces with water. |

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|-----------------|--|
| Handling | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using this product. |
|-----------------|--|

Conditions for safe storage, including any incompatibilities

| | |
|------------------------------|---|
| Storage | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. |
| Incompatible Products | Strong oxidizing agents. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|------------------------------|--------------------------|--|
| Sodium hydroxide 1310-73-2 | Ceiling: 2 mg/m ³ | TWA: 2 mg/m ³ | IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³ |
| Dihydrogen potassium phosphate 7778-77-0 | - | - | Not Established |
| Water 7732-18-5 | - | - | Not Established |

Appropriate engineering controls

Engineering Measures Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and body protection Gloves & Lab Coat. Protective gloves. Nitrile rubber.

Respiratory protection No special protective equipment required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical state liquid
Appearance Clear, colorless **Odor** Thyme-like

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---------------------------------------|--------------------------|-------------------------|
| pH | 7.00 | |
| Melting point / freezing point | No information available | |
| Boiling point / boiling range | No information available | |
| Flash point | No information available | |
| Evaporation rate | | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | |
| Upper flammability limit: | No information available | |
| Lower flammability limit: | No information available | |
| Vapor pressure | <17 | <17 mmHg @ 20°C |
| Vapor density | <1 | .? (air = 1) |
| Specific gravity | No information available | |
| Water solubility | No information available | |
| Solubility in other solvents | No information available | |
| Partition coefficient | No information available | |
| Autoignition temperature | No information available | |
| Decomposition temperature | No information available | |
| Kinematic viscosity | No information available | |
| Dynamic viscosity | No information available | |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |

Other Information

Softening point No information available
Molecular weight No information available
VOC Content (%) No information available
Density No information available
Bulk density No information available

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | Stable under recommended storage conditions. |
| Hazardous polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | Extremes of temperature and direct sunlight. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | Potassium Oxides. Phosphorous oxides. |

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|--------------------|-------------------------|-----------------|
| Sodium hydroxide 1310-73-2 | Not Established | = 1350 mg/kg (Rabbit) | Not Established |
| Dihydrogen potassium phosphate 7778-77-0 | Not Established | > 4640 mg/kg (Rabbit) | Not Established |
| Water 7732-18-5 | > 90 mL/kg (Rat) | Not Established | Not Established |

Information on toxicological effects

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|-------|-----------------|-----------------|------|
| Sodium hydroxide 1310-73-2 | - | Not Established | Not Established | - |
| Dihydrogen potassium phosphate 7778-77-0 | - | Not Established | Not Established | - |
| Water 7732-18-5 | - | Not Established | Not Established | - |

Chronic toxicity None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 0.7 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical name | Toxicity to Algae | Toxicity to Fish | Daphnia Magna (Water Flea) |
|---|-------------------|--|----------------------------|
| Sodium hydroxide 1310-73-2 | Not Established | 45.4: 96 h Oncorhynchus mykiss mg/L LC50 static | Not Established |
| Dihydrogen potassium phosphate 7778-77-0 | Not Established | Not Established | Not Established |
| Water 7732-18-5 | Not Established | Not Established | Not Established |

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Chemical name | Log Pow |
|---|-----------------|
| Sodium hydroxide 1310-73-2 | Not Established |
| Dihydrogen potassium phosphate 7778-77-0 | Not Established |
| Water 7732-18-5 | Not Established |

13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose of waste product or used containers according to local regulations.

Contaminated packaging Do not reuse empty containers.

| Chemical name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|-----------------|--------------------------|------------------------|------------------------|
| Sodium hydroxide 1310-73-2 | Not Established | - | Not Established | Not Established |
| Dihydrogen potassium phosphate 7778-77-0 | Not Established | - | Not Established | Not Established |
| Water 7732-18-5 | Not Established | - | Not Established | Not Established |

| Chemical name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---|--------------------------------------|------------------------|------------------------|------------------------|
| Sodium hydroxide 1310-73-2 | Not Established | Not Established | Not Established | Not Established |
| Dihydrogen potassium phosphate 7778-77-0 | Not Established | Not Established | Not Established | Not Established |
| Water 7732-18-5 | Not Established | Not Established | Not Established | Not Established |

| Chemical name | California Hazardous Waste Status |
|---|-----------------------------------|
| Sodium hydroxide 1310-73-2 | - |
| Dihydrogen potassium phosphate 7778-77-0 | - |
| Water 7732-18-5 | - |

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

| | |
|---------------|----------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | SARA 313 - Threshold Values % |
|---|-------------------------------|
| Sodium hydroxide 1310-73-2 | Not Established |
| Dihydrogen potassium phosphate 7778-77-0 | Not Established |
| Water 7732-18-5 | Not Established |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|----|
| Acute health hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium hydroxide 1310-73-2 | Not Established | Not Established | Not Established | Not Established |
| Dihydrogen potassium phosphate 7778-77-0 | Not Established | Not Established | Not Established | Not Established |
| Water 7732-18-5 | Not Established | Not Established | Not Established | Not Established |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name | Hazardous Substances RQs | CERCLA/SARA RQ | RQ |
|---|--------------------------|-----------------|---|
| Sodium hydroxide 1310-73-2 | 1000 lb | Not Established | RQ 1000 lb final RQ RQ 454 kg final RQ |
| Dihydrogen potassium phosphate 7778-77-0 | - | Not Established | - |
| Water 7732-18-5 | - | Not Established | - |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

| Chemical name | California Proposition 65 |
|---|---------------------------|
| Sodium hydroxide 1310-73-2 | Not Established |
| Dihydrogen potassium phosphate 7778-77-0 | Not Established |
| Water 7732-18-5 | Not Established |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|------------------|------------|---------------|--------------|
| Sodium hydroxide | X | X | X |

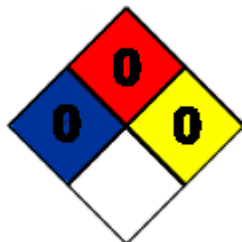
| | | | |
|---|-----------------|-----------------|-----------------|
| 1310-73-2 | | | |
| Dihydrogen potassium phosphate 7778-77-0 | Not Established | Not Established | Not Established |
| Water 7732-18-5 | Not Established | Not Established | X |
| 16. OTHER INFORMATION | | | |

NFPA

Health hazard 0

Flammability 0

Instability 0

Physical and Chemical
Hazards -

Prepared by

Issuing Date

Revision Date

Reason for revision

Disclaimer

Regulatory Affairs Department

Feb-13-2015

Apr-21-2015

New US GHS format

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Material Safety Data Sheet