

SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

PRODUCT

Product Name: BUFFER SOLUTION pH 7.0
Control Number: 00259
Product Description: Phosphate Buffer Solution

COMPANY IDENTIFICATION

Supplier: COLONIAL CHEMICAL SOLUTIONS, INC.
916 West Lathrop Avenue
Savannah, Georgia 31415

24 Hour Emergency Telephone: (800)-424-9300 CHEMTREC
General Information: (912) 236-1331

SECTION 2- HAZARDS IDENTIFICATION

GHS Classification:

[Health]

[Environmental]

[Physical]

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Pictograms

Signal Word: Warning

Hazard statement(s)

Precautionary statement(s)

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Disodium Phosphate	7558-79-4	15
Phosphoric Acid	7664-38-2	02

SECTION 4 - FIRST AID MEASURES

FIRST AID PROCEDURES:

Skin Contact: Wash skin with soap and water Get medical attention if irritation develops.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention/advice.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention/advice.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous combustion products: Oxides of phosphorous and sodium.

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

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Unusual Fire and Explosion Hazards: Not considered a fire or explosion hazard.

SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

Spills: Evacuate all non-essential personnel from the spill area. Avoid creating dust. Suitable protective clothing should be worn. Shut off or plug source of spill. Sweep or shovel spilled material into suitable container.
Large Spills: Salvage as much re-useable material as possible into a suitable container. Sweep up and shovel residual material and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Avoid contaminating ground and surface water.

SECTION 7 · STORAGE AND HANDLING

Handling: Do not get in eyes or on skin. Avoid formation of dust and aerosols. Do not breathe dust. Keep container closed and tightly sealed when not in use. Use good hygiene practices.

Storage: Store in a cool, dry, ventilated area, away from incompatible substances. Store only in approved properly labeled containers. Avoid contact with moisture.

SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

Exposure Limits: Disodium Phosphate Contains no substances with occupational exposure limit values.
Contains no substances with occupational exposure limit values.

Personal Protective Equipment (PPE):

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin: If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

Clothing: Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

Respirators: Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

SECTION 9 · PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: non-combustible

Autoignition Temperature: No available data

Boiling Point: 212 °F

Melting Point: No available data

Vapor Pressure: No available data

Vapor Density (Water=1): 1

Odor/Appearance: Colorless liquid with no appreciable odor.

Flammability Limits: Not applicable

Relative density: 1.158

Volatile %: 85

Evaporation Rate (Water=1): 1

pH: 7.01

Solubility in Water: soluble

SECTION 10 · STABILITY AND REACTIVITY

Chemical Stability: Stable under normal use and temperature conditions.

Conditions to Avoid: Avoid moisture.

Incompatible materials: Strong acids, and oxidizers.

Hazardous Polymerization: Will not occur.

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SECTION 11 - TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:

Skin: May cause mild skin irritation.

Eyes: Liquid is mildly irritating to the eyes.

Inhalation: May cause respiratory tract and mucous membrane irritation.

Ingestion: If swallowed this material may cause irritation of the digestive tract.

Acute oral toxicity:

LD50 rat: No available data

Acute inhalation toxicity:

LC50 rat: No available data

Acute dermal toxicity:

LD50 rat: No available data

SECTION 12 - ECOLOGICAL INFORMATION

Aquatic Toxicity: No available data

Bio-accumulative potential: No available data

Mobility: No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 - TRANSPORTATION

U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

Proper Shipping Name: Not a DOT Regulated Material

Hazard Class:

UN Number:

Packaging Group:

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SECTION 15 - REGULATORY INFORMATION

US FEDERAL REGULATIONS

Comprehensive Environmental Response and Liability Act (CERCLA)

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Toxic Substance Control Act (TSCA): All components of this product are listed on the TSCA inventory list.

SARA Section 311/312 (40 CFR 370) Hazard Categories:

No SARA Hazards

SARA Section 313 (40 CFR 372) Hazard Categories: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA

Clean Air Act: None of the chemicals in this product are listed as Hazardous Substances under the CCA.

California Prop 65: This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16 - OTHER INFORMATION

MSDS Revision Date: March 2014

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health: 0

Flammability: 0

Reactivity: 0

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this MSDS and its contents from that originally submitted by Colonial.