



PURITAN PRODUCTS

Effective Date: 08/29/16

Replaces Revision: 07/01/13, 02/24/11

NON-EMERGENCY TELEPHONE
610-866-4225

24-HOUR CHEMTREC EMERGENCY TELEPHONE
800-424-9300

SDS – SAFETY DATA SHEET

1. Identification

Product Identifier: BUFFER SOLUTION (CARBONATE), pH 10 (COLOR CODED BLUE)

Synonyms: None

Chemical Formula: Not applicable to mixtures

Recommended Use of the Chemical and Restrictions On Use: Laboratory Reagent

Manufacturer / Supplier: Puritan Products; 2290 Avenue A, Bethlehem, PA 18017 **Phone:** 610-866-4225

Emergency Phone Number: 24-Hour Chemtrec Emergency Telephone 800-424-9300

2. Hazard(s) Identification

Classification of the Substance or Mixture:

Acute toxicity, Oral (Category 5)

Skin corrosion (Category 1B)

Serious eye damage (Category 1)

Acute aquatic toxicity (Category 3)

Risk and Safety Phrases:

R20: Harmful by inhalation.

R22: Harmful if swallowed.

R36: Irritating to eyes.

R38: Irritating to skin.

R52: Harmful to aquatic organisms.

Label Elements:

Trade Name: BUFFER SOLUTION (CARBONATE), pH 10 (COLOR CODED BLUE)

Signal Word: Danger



Hazard Statements:

H303: May be harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H402: Harmful to aquatic life.

Precautionary Statements:

P280: Wear protective gloves / protective clothing / eye protection / face protection.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor / physician.

3. Composition / Information on Ingredients

CAS Number: Not applicable to mixtures

EC Number: Not applicable to mixtures

Index Number: Not applicable to mixtures

Molecular Weight: Not applicable to mixtures

Ingredient	CAS Number	EC Number	Percent	Hazardous	Chemical Characterization
Octanoic Acid	124-07-2	204-677-5	< 1%	Yes	Substance
Thymol Blue	62625-21-2	263-650-6	< 1%	No	Substance
Bromocresol Green	62625-32-5	263-657-4	< 1%	No	Substance
Sodium Carbonate, Anhydrous	497-19-8	207-838-8	< 1%	Yes	Substance
Water	7732-18-5	231-791-2	95 - 99%	No	Mixture

4. First-aid Measures

First aid procedures given apply to concentrated solutions. Exposures to dilute solutions may not require these extensive first aid procedures.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Oxygen. Get medical attention immediately.

Ingestion: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire-fighting Measures

Fire: Not expected to be a fire hazard.

Explosion: Sealed containers may rupture when heated.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Environmental Precautions and Methods and Materials for Containment and Cleaning Up: Contain and recover liquid when possible. Do not let product enter drains. Neutralize with alkaline material (soda ash, lime,) then absorb with an inert material (e.g., vermiculite, dry sand, earth,) and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Precautions for Safe Handling and Conditions for Safe Storage, Including Any Incompatibilities: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Separate from acids and alkalis. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid.) Observe all warnings and precautions listed for the product.

8. Exposure Controls / Personal Protection

Airborne Exposure Limits:
None established.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators (NIOSH Approved): Not expected to require personal respirator usage.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and / or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Blue liquid

Odor: Odorless

Odor Threshold: Not determined

pH: 10

% Volatiles by volume @ 21C (70F): ca. 99 (as water)

Melting Point: No information found.

Boiling Point / Boiling Range: No information found

Flash Point: Not applicable

Evaporation Rate (BuAC=1): No information found

Flammability: Not applicable

Upper / Lower Flammability or Explosive Limits: Not applicable

Vapor Pressure (mm Hg): No information found

Vapor Density (Air=1): No information found

Relative Density: No information found

Solubility: Completely soluble in water (100%)

Partition Coefficient: n-octanol / water: No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No information found

10. Stability and Reactivity

Reactivity and / or Chemical Stability: Stable under ordinary conditions of use and storage.

Possibility of Hazardous Reactions and Conditions to Avoid: Incompatibles.

Incompatible Materials: Acids.

Hazardous Decomposition Products: Potassium Oxide at very high temperatures.

11. Toxicological Information

Emergency Overview: CAUTION! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Potential Health Effects:

Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Inhalation: May cause respiratory irritation.

Ingestion: May be harmful if swallowed.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Chronic Exposure: No known significant effects or critical hazards.

Aggravation of Pre-existing Conditions: No known significant effects or critical hazards.

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System:) No data available.

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System:) No data available.

Numerical Measures of Toxicity: Cancer Lists: NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
Octanoic Acid (124-07-2)	No	No	None
Thymol Blue (62625-21-2)	No	No	None
Bromocresol Green (62625-32-5)	No	No	None
Sodium Carbonate, Anhydrous (497-19-8)	No	No	None
Water (7732-18-5)	No	No	None

Acute Toxicity:

No LD50/LC50 information found relating to normal routes of occupational exposure.

12. Ecological Information

Ecotoxicity: May be harmful to aquatic organisms.

Persistence and Degradability: No further relevant information available.

Bioaccumulative Potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

Other adverse effects: No further relevant information available.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic)

Not regulated

Maritime Transport IMDG/GGVSea

Not regulated

Air Transport ICAO-TI and IATA-DGR

Not regulated

15. Regulatory Information

Chemical Inventory Status – Part 1

Ingredient	TSCA	EC	Japan	Australia
Octanoic Acid (124-07-2)	Yes	Yes	Yes	Yes
Thymol Blue (62625-21-2)	Yes	Yes	Yes	Yes
Bromocresol Green (62625-32-5)	Yes	Yes	Yes	Yes
Sodium Carbonate, Anhydrous (497-19-8)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

Chemical Inventory Status – Part 2

Ingredient	Korea	Canada		Phil.
		DSL	NDSL	
Octanoic Acid (124-07-2)	Yes	Yes	No	Yes
Thymol Blue (62625-21-2)	Yes	Yes	No	Yes
Bromocresol Green (62625-32-5)	Yes	Yes	No	Yes
Sodium Carbonate, Anhydrous (497-19-8)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

Federal, State & International Regulations - Part 1

Ingredient	SARA 302		SARA 313	
	RQ	TPQ	List Chemical	Catg.
Octanoic Acid (124-07-2)	No	No	No	No
Thymol Blue (62625-21-2)	No	No	No	No
Bromocresol Green (62625-32-5)	No	No	No	No
Sodium Carbonate, Anhydrous (497-19-8)	No	No	No	No
Water (7732-18-5)	No	No	No	No

Federal, State & International Regulations - Part 2

Ingredient	RCRA		TSCA
	CERCLA	261.33	8(d)
Octanoic Acid (124-07-2)	No	No	No
Thymol Blue (62625-21-2)	No	No	No
Bromocresol Green (62625-32-5)	No	No	No
Sodium Carbonate, Anhydrous (497-19-8)	No	No	No
Water (7732-18-5)	No	No	No

Chemical Weapons Convention: No	TSCA 12(b): No	CDTA: No
SARA 311/312:	Acute: No	Chronic: No
Reactivity: No	Fire: No	Pressure: No
	Mixture / Liquid	

Australian Hazchem Code: None allocated

Poison Schedule: None allocated

16. Other Information

Revision 08/29/16 – modified Effective Date

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