



SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: SSC Buffer Solution (20x), pH 7.0
PRODUCT NUMBER: S716
COMPANY INFO: *PhytoTechnology Laboratories®*
PO Box 12205, Shawnee, KS 66282-2205
Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442
www.phytotechlab.com
EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only
1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

RESTRICTIONS ON USE: Products sold by *PhytoTechnology Laboratories®* are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including hazard and precautionary statements:

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture that contains, but is not limited to, the following components that may cause harm to the user or environment or may be suspected to do so:

| Ingredient | CAS Number | Percent | Hazardous |
|--------------------------|------------|----------|-------------------------------------------------|
| Sodium Chloride | 7647-14-5 | 15.15 % | No exposure limits established by OSHA or ACGIH |
| Sodium Citrate Dihydrate | 6132-04-3 | 7.63 % | No exposure limits established by OSHA or ACGIH |
| Hydrochloric Acid | 7647-01-0 | ~0.001 % | OSHA PEL: 5 ppm; ACGIH TLV: 5 ppm |
| Water | 7732-18-5 | >75 % | No exposure limits established by OSHA or ACGIH |

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

| Route of Entry | Symptoms | First Aid Procedures |
|----------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingestion | May cause irritation if swallowed | If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. |
| Inhalation | May cause irritation to respiratory tract | Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention. |
| Eye Contact | Direct contact may cause irritation. May cause redness, tearing, or blurred vision. | Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists. |

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| Skin Contact | Irritating. May cause reddening, itching or inflammation. | Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists. |
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Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

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|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Extinguishing Media: | Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire. |
| Special Protective Equipment and Precaution for Firefighters: | In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance. |
| Hazardous Combustion Products: | May emit toxic fumes under fire conditions. |
| Toxic Gases Produced: | Carbon monoxide, carbon dioxide, sodium oxides, chlorine gas |

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

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| Environmental Precautions: | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
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| | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Method of Containment and Cleanup: | Clean-up personnel should wear proper protective equipment and clothing. Contain spilled material and do not let product enter drains. Soak up with inert absorbent material and place in a suitable, closed container for disposal in accordance with all local, state/provincial, and national requirements. Ventilate the area if necessary. |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

7. HANDLING AND STORAGE

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|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Precaution for Safe Handling: | Avoid contact with skin and eyes. Avoid aerosols. Avoid incompatible substances. Keep away from combustible materials. Wash thoroughly after use. |
| Conditions for Safe Storage: | Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. |
| Incompatibilities: | Strong oxidizing agent |
| Recommended Storage Temperature: | Room Temperature |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

ACGIH Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/Face Protection: | Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur. |
| Skin Protection: | Protective gloves |
| Body Protection: | Lab coat |
| Respiratory Protection: | Respiratory protection is not required. Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance. A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|------------------------------------------|-------------------------------|-------------------------------|
| Appearance: | Colorless, Clear Liquid | |
| pH (Neat): | 6.5 – 7.5 | |
| Solubility: | Miscible with Water | |
| Melting Range: | No data available | |
| Vapor Density: | No data available | |
| Vapor Pressure: | No data available | |
| Specific Gravity: | No data available | |
| Odor: | Odorless | |
| Odor Threshold: | No data available | |
| Viscosity: | No data available | |
| Relative Density: | No data available | |
| Evaporation Rate: | No data available | |
| Initial Boiling Point and Boiling Range: | No data available | |
| Flammability (solid, gas): | No data available | |
| Partition coefficient: n-octanol/water): | No data available | |
| Auto-ignition Temperature: | No data available | |
| Decomposition Temperature: | No data available | |
| Flash Point (Closed Cup): | No data available | |
| Flammable Limits: | Upper (%) – No data available | Lower (%) – No data available |

10. STABILITY AND REACTIVITY

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|-----------------------------------|--------------------------------------------------------------|--|
| Reactivity: | No data available | |
| Chemical Stability: | Stable under normal conditions of use | |
| Possibility of Hazard Reactions: | Will not occur | |
| Conditions to Avoid: | Incompatibles | |
| Incompatibles Materials: | Strong oxidizing agents | |
| Hazardous Decomposition Products: | Carbon monoxide, carbon dioxide, sodium oxides, chlorine gas | |

11. TOXICOLOGICAL INFORMATION

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|----------------------------------------|----------------------------------------------|-------------------|
| Toxicity: | LD ₅₀ (Oral-Rat)(mg/Kg): | No data available |
| | LD ₅₀ (Oral-Mouse)(mg/Kg): | No data available |
| | LD ₅₀ (Dermal-Rabbit)(mg/Kg): | No data available |
| Carcinogenicity: | NTP: | No |
| | IARC: | No |
| | Z List: | No |
| | OSHA Reg: | No |
| Reproductive Toxicity: | No data available | |
| Symptoms Associated with Overexposure: | Irritation, sneezing, gastrointestinal upset | |
| Specific Target Organ Toxicity: | Single Exposure: | No data available |
| | Repeated Exposure: | No data available |

Target Organs: None identified
Medical Conditions None identified
Aggravated By Exposure:
Routes of Entry: Inhalation, Ingestion, skin and eye contact
NIOSH/RTECS NO: Not listed

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No
Section 311/312 Hazard: No SARA Hazards

16. OTHER INFORMATION

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|--------------|---------------|-----------------------|-------------------|-----------------|
| HMIS Rating: | Health Hazard | Chronic Health Hazard | Flammability | Physical Hazard |
| | 0 | | 0 | 0 |
| NFPA Rating: | Health Hazard | Fire Hazard | Reactivity Hazard | Special Hazard |
| | 0 | 0 | 0 | |

16. OTHER INFORMATION

PhytoTechnology Laboratories® provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. *PhytoTechnology Laboratories®* shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for **LABORATORY USE ONLY**. Our products may **NOT BE USED** as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

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