# SSC Buffer, 20X

# CAROLINA®

#### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor:

**Chemical Information:** 

SSC Buffer, 20X Science education applications Southern Blot Hybridization Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

#### **Section 2**

Chemtrec:

Section 1

#### **Hazard Identification**

#### Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

Other Safety Precautions:	May cause irritation. May cause gastrointestinal discomfort. May cause irritation to respiratory tract. May cause irritation to skin.
Acute Toxicity Dermal Contains Acute Toxicity Inhalation Vapor Contains	26.36 % of the mixture consists of ingredient(s) of unknown toxicity 26.36 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	26.36 % of the mixture consists of ingredient(s) of unknown toxicity

#### **Section 3**

## **Composition / Information on Ingredients**

Chemical Name	CAS #	<u>%</u>
Water	7732-18-5	73.64
Sodium Chloride	7647-14-5	17.54
Sodium Citrate, Dihydrate	6132-04-3	8.82

#### **Section 4**

Inhalation:

Ingestion:

Eves:

#### First Aid Measures

#### **Emergency and First Aid Procedures**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### **Section 5**

Skin Contact:

#### **Firefighting Procedures**

Extinguishing Media: Fire Fighting Methods and Protection:

Fire and/or Explosion Hazards: Hazardous Combustion Products: Use media suitable to extinguish surrounding fire. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Fire or excessive heat may produce hazardous decomposition products. Carbon dioxide, Carbon monoxide, Sodium Oxides

#### **Section 6**

#### **Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Isolate area. Keep unnecessary personnel away. Remove soiled clothing and launder before reuse.

Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.

## Section 7

#### Handling and Storage

Handling: Storage: Storage Code:

Avoid creating and inhaling dust.

Keep container tightly closed in a cool, well-ventilated place.

ode: Green - general chemical storage

#### Section 8

#### Protection Information

	ACC	<u>SIH</u>	OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
Sodium Chloride	N/A	N/A	N/A	N/A	
Sodium Citrate, Dihydrate	N/A	N/A	N/A	N/A	

Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): Respiratory Protection: Respirator Type(s):

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use. Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use.

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Natural rubber, Neoprene, PVC or equivalent.

#### Section 9

Gloves:

**Eye Protection:** 

Skin Protection:

Formula: The product is a mixture. Molecular Weight: Appearance: Colorless Liquid Odor: None Odor Threshold: No data available pH: No data available Melting Point: Estimated 0 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: No data available

#### **Physical Data**

Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: No data available Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: No data available

#### Section 10

## **Reactivity Data**

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:

No data available Stable under normal conditions. None known. Water-reactive materials, Bromine Trifluoride, Lithium, Strong oxidizing agents Sodium Oxides, Carbon dioxide, Carbon monoxide Will not occur

### Section 11

Acute Toxicity:

#### **Toxicity Data**

Routes of Entry Symptoms (Acute): Delayed Effects: Ingestion., Inhalation and ingestion. Diarrhea, Abdominal Cramps, Vomiting, Impaired Kidney Function, Alkalosis No data available

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat		
		90000 mg/kg		
Sodium Chloride	7647-14-5	Oral LD50 Mouse		
		4000 mg/kg		
		Oral LD50 Rat		
		3000 mg/kg		
Sodium Citrate, Dihydrate	6132-04-3	No data available	No data available	No data available
Carcinogenicity:				
Chemical Name	CAS Number	IARC	NTP	OSHA
Sodium Chloride	7647-14-5	Not listed	Not listed	Not listed
Sodium Citrate, Dihydrate	6132-04-3	Not listed	Not listed	Not listed
Chronic Efforts				

Chronic Effects:	
Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	No evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	No evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	No information available
Chronic:	No information available

#### Section 12

**Ecological Data** 

Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. Keep out of waterways. No data Dissolved into water No data No data No data				
Chemical Name	CAS Number	Eco Toxicity			
Water	7732-18-5	No data available			
Sodium Chloride	7647-14-5	96 HR LC50 LEPOMIS MACROCHIRUS 12946 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 1000 MG/L			
Sodium Citrate, Dihydrate	6132-04-3	Not available			

## Section 13

#### **Disposal Information**

**Transport Information** 

#### **Disposal Methods:**

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Waste Disposal Code(s):

## **Section 14**

#### **Ground - DOT Proper Shipping Name:** Not regulated for transport by US DOT.

**Air - IATA Proper Shipping Name:** Not regulated for air transport by IATA.

Section 15	Regulatory Information					
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sodium Chloride	7647-14-5	No	No	No	No	No
Sodium Citrate, Dihydrate	6132-04-3	No	No	No	No	No

## **Section 16**

## **Additional Information**

#### Revised: 09/29/2014

#### Printed: 04-22-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

**Replaces: None** 

<b>Glossary</b> ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA IDLH	Toxic Substances Control Act Immediately dangerous to life and health