

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT NAME</b>	SSS ROYAL TOUCH LIQUID CHLORINE BLEACH		
<b>PRODUCT CODE</b>	17005	MANUFACTURED FOR	Triple S
<b>ISSUE DATE</b>	06-05-2001	STREET ADDRESS	2 Executive Park Drive
<b>SUPERCEDES</b>	03-28-2001	CITY, STATE ZIP	Billerica, MA 01862
		PHONE	(978) 667 7900

**EMERGENCY TELEPHONE NUMBER**  
1-800-535-5053

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS No.	EXPOSURE LIMITS			OTHER LIMITS
		OSHA PEL/TLV	ACGIH TLV	STEL	
Sodium hypochlorite	7681-52-9	3 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	9 mg/m <sup>3</sup>	None

## SECTION 3 – HAZARDS IDENTIFICATION

<b>EMERGENCY OVERVIEW</b>	Causes severe irritation to eyes, skin, and mucous membranes.
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POTENTIAL HEALTH EFFECTS	
<b>INGESTION</b> .....	Irritation of membranes of the mouth, throat, and stomach pain and possible ulceration
<b>INHALATION</b> .....	Bronchial irritation, cough, difficulty breathing
<b>EYE CONTACT</b> .....	Severe irritation and burning
<b>SKIN CONTACT</b> .....	Reddening, eczema

## SECTION 4 – FIRST AID MEASURES

INGESTION	Drink water or milk. DO NOT INDUCE VOMITING. DO NOT USE BAKING SODA OR ACIDIC ANTIDOTES. <b>Get medical attention immediately.</b>
INHALATION	Remove to fresh air. If irritation persists, see a physician.
EYE CONTACT	Flush with water for at least 15 minutes. <b>Consult an eye specialist immediately.</b>
SKIN CONTACT	Flush with water. Remove contaminated clothing and do not re-wear until washed. If irritation persists, see a physician.
NOTE TO PHYSICIAN	Treatment based on judgment of the physician in response to reactions of the patient.

## SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT / METHOD	None / NA	FLAMMABLE LIMITS	NA
% VOLATILE	NA		
EXTINGUISHING MEDIA	Dry chemical, water mist, alcohol foam		

SPECIAL FIRE FIGHTING PROCEDURES	Firefighters should wear a self-contained breathing apparatus as in all chemical fires.
FIRE AND EXPLOSION HAZARDS	Can be decomposed by heat or acid. Chlorine gas is a strong fire promoter.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

RESPONSE TO SPILLS	Stop leak. Reduce spilled material with bisulfites or ferrous salt solutions (some heat will result). Keep solution alkaline to neutral. Dilute with large quantities of water.
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**SECTION 7 – HANDLING AND STORAGE**

HANDLING PRECAUTIONS	Wash hands before eating. Keep container tightly closed when not in use.
STORAGE PRECAUTIONS	Store in vented, closed, clean, non-corrosive containers in a cool, dry place away from heat and adjacent chemicals.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTIONS**

HYGIENIC PRACTICES	Normal procedures for good hygiene. Observe label precautions. Use personal protection equipment.
ENGINEERING CONTROLS	Use general mechanical ventilation and local exhaust to remove vapors at the source. Eyewash station is recommended.

X	<b>RESPIRATOR</b>	Required above OSHA recommended levels
X	<b>GOGGLES / FACE SHIELD</b>	Required; goggles should be chemical splash type
	<b>APRON</b>	Not necessary
X	<b>GLOVES</b>	Required; chemical resistant type
	<b>BOOTS</b>	Not necessary

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Clear, pale yellow/green liquid	BOILING POINT	210° F
ODOR	Pungent chlorine	VAPOR PRESSURE	ND
pH CONCENTRATE	11.5 – 12.5	VAPOR DENSITY	ND
SPECIFIC GRAVITY	1.15	EVAPORATION RATE (butyl acetate=1)	NA
SOLUBILITY IN WATER	ND		

**SECTION 10 – STABILITY AND REACTIVITY**

CHEMICAL STABILITY		<b>STABLE</b>			<b>UNSTABLE</b>	X
<b>CONDITIONS TO AVOID</b>	Decomposition increases with temperature, concentration, and sunlight					
INCOMPATIBILITY	Acids, ammonia, urea, oxidizable material, nickel, copper, and tin					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Hypochlorous acid, chlorine, hydrochloric acid					
POLYMERIZATION		<b>WILL NOT OCCUR</b>	X		<b>MAY OCCUR</b>	
<b>CONDITIONS TO AVOID</b>	None					

**SECTION 11 – TOXICOLOGICAL INFORMATION**

CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910,Z

## OTHER EFFECTS

<b>ACUTE</b>	Irritation to mucous membranes. Very little hazard from properly stored solution.
<b>CHRONIC</b>	Not determined
<b>ORAL LD/50</b>	Unknown

**SECTION 12 – DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL	Neutralized, dilute material may be flushed to sewer.
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**SECTION 13 – TRANSPORT INFORMATION**

DOT CLASSIFICATION		<b>HAZARDOUS</b>	X		<b>NOT HAZARDOUS</b>
<b>DESCRIPTION</b>	Hypochlorite solution with more than 5 per cent but less than 16 per cent available chlorine,8, UN 1791, PG III.				
SEATEX HM CODE	280				

**SECTION 14 – OTHER INFORMATION**

## HMIS CLASSIFICATION

2	<b>BLUE</b>	HEALTH HAZARD
0	<b>RED</b>	FLAMMABILITY
1	<b>YELLOW</b>	REACTIVITY
Alk	<b>WHITE</b>	SPECIAL HAZARD

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