

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

EMERGENCY TELEPHONE NUMBER
1-800-535-5053

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

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

SECTION 3 – HAZARDS IDENTIFICATION

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

SECTION 4 – FIRST AID MEASURES

INGESTION	Drink water or milk. DO NOT INDUCE VOMITING. DO NOT USE BAKING SODA OR ACIDIC ANTIDOTES. Get medical attention immediately.
INHALATION	Remove to fresh air. If irritation persists, see a physician.
EYE CONTACT	Flush with water for at least 15 minutes. Consult an eye specialist immediately.
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	RESPIRATOR	Required above OSHA recommended levels
X	GOGGLES / FACE SHIELD	Required; goggles should be chemical splash type
	APRON	Not necessary
X	GLOVES	Required; chemical resistant type
	BOOTS	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		STABLE			UNSTABLE	X
CONDITIONS TO AVOID	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		WILL NOT OCCUR	X		MAY OCCUR	
CONDITIONS TO AVOID	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

ACUTE	Irritation to mucous membranes. Very little hazard from properly stored solution.
CHRONIC	Not determined
ORAL LD/50	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		HAZARDOUS	X		NOT HAZARDOUS	
DESCRIPTION	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	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
1	YELLOW	REACTIVITY
Alk	WHITE	SPECIAL HAZARD

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