

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	SSS ROYAL TOUCH LIQUID ENZYME DETERGENT		
PRODUCT CODE	17014	MANUFACTURED FOR	Triple S
ISSUE DATE	06/05/01	STREET ADDRESS	2 Executive Park Drive
SUPERCEDES	03/29/01	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.	OSHA PEL/TLV	EXPOSURE LIMITS		OTHER LIMITS
			ACGIH TLV	STEL	
Nonylphenoethoxylate	9016-45-9	NE	NE	NE	NA

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Causes eye and skin irritation Harmful if swallowed Harmful if inhalation exposure limits are exceeded
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POTENTIAL HEALTH EFFECTS	
INGESTION	Irritation and damage to mucous membranes
INHALATION	Irritation and damage to mucous membranes
EYE CONTACT	Irritating and burning
SKIN CONTACT	Irritating and burning

SECTION 4 – FIRST AID MEASURES

INGESTION	Drink large quantities of milk or water. DO NOT INDUCE VOMITING. See a physician immediately.
INHALATION	If irritation occurs leave area until mists have dissipated. If irritation persists see a physician.
EYE CONTACT	Flush with water 15 minutes. See a physician immediately.
SKIN CONTACT	Flush with water. 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	NA	FLAMMABLE LIMITS	NA
% VOLATILE	NA		
EXTINGUISHING MEDIA	Dry chemical, alcohol foam water mist,		

SPECIAL FIRE FIGHTING PROCEDURES	Firefighters should wear a self-contained breathing apparatus as in all chemical fires.
FIRE AND EXPLOSION HAZARDS	None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS	Stop leak. Dilute spilled material with dilute acetic acid (vinegar) to less than pH of 10.
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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 a cool dry place.

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 to remove vapors at the source. Eyewash station is recommended.

	RESPIRATOR	Not required
X	GOGGLES / FACE SHIELD	Recommended
	APRON	Not required
X	GLOVES	Required: PVC, Neoprene, Nitrile acceptable
	BOOTS	Not required

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Blue Liquid	BOILING POINT	212° F.
ODOR	Citrus	VAPOR PRESSURE	NA
PH	8.5	VAPOR DENSITY	NA
SPECIFIC GRAVITY	1. 060	EVAPORATION RATE (butyl acetate=1)	< 1
SOLUBILITY IN WATER	Complete		

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	X		UNSTABLE	
CONDITIONS TO AVOID	Elevated temperatures					
INCOMPATIBILITY	Strong acids and oxidizing agents					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Oxides of carbon					
POLYMERIZATION		WILL NOT OCCUR	X		MAY OCCUR	
CONDITIONS TO AVOID	NA					

SECTION 11 – TOXICOLOGICAL INFORMATION

CARCINOGENICITY	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
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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
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OTHER EFFECTS

ACUTE	Dehydration and defatting of skin. Irritation and burning to mucous membranes. Severe eye irritation
CHRONIC	None known
ORAL LD/50	Unknown

SECTION 12 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Neutralized, diluted material may be flushed to sewer
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SECTION 13 – TRANSPORT INFORMATION

DOT CLASSIFICATION		HAZARDOUS			NOT HAZARDOUS	X
DESCRIPTION	NA					
SEATEX HM CODE	000					

SECTION 14 – OTHER INFORMATION

HMIS CLASSIFICATION

1	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
0	YELLOW	REACTIVITY
Alk	WHITE	SPECIAL HAZARD

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Triple S in connection with the use of this information.