

Material Safety Data Sheet

May be used to comply with OSHA's
Hazardous Communication Standard, 29 CFR 1910.1200

IDENTITY (As used on LABELS and LIST)

Liquid-Live Bacteria
PYD 618

NPCA Hazardous Materials Identification System

Specific Hazard	Personal Protection
4-Severe	X-Ask a supervisor
3-Serious	A-Safety Glasses
2-Moderate	B-Goggles, Gloves
1-Slight	C-Goggles, Gloves, Apron
0-Minimal	D-Goggles, Gloves, Apron, & Faceshield
Health (1)	Reactivity (0)
Flammability (0)	Personal Protection (B)

SECTION I

MFGR'S NAME AND ADDRESS

HUNTER CHEMICAL & FORMULATING CO., INC.
1300 ALDEN ROAD - ORLANDO, - FL 32803-1895

EMERGENCY TELEPHONE NUMBER
Telephone Number For Information

407-898-4341
407-898-4341

DATE PREPARED:
02-05-99

SECTION II-HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components	OSHA PEL	ACGIH	Other Limits Recommended	%Optional
Specific Components				
Specific Chemical Identity				
Common Name(s)				
Poly (oxy-1,2-ethanedly) CAS #9016459		N/A		2-4%
alpha (nonylphenyl)-omega-hydroxy				
Viable bacterial cultures (largely water) CAS #7732-18-5		N/A		GT85%

Ingredients not precisely identified are proprietary or nonhazardous. All chemical ingredients appear on the EPA TSCA Inventory. Values are not product specifications. gt = greater than, lt = less than, NA = not available

SECTION III-PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT (F)	100°C	SPECIFIC GRAVITY (H ₂ O=1)	Approximately 1.0
VAPOR PRESSURE (mm Hg)	mmHg 20°C	MELTING POINT	N/A
	equivalent to water		
VAPOR DENSITY (air=1)	equivalent to water	EVAPORATION POINT	N/A
SOLUBILITY IN WATER	99%	(Butyl Acetate=1)	
		pH: 7.5-9.0	

APPEARANCE AND ODOR: White opaque liquid with a floral fragrance.

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL	UEL
No Data	N/A	N/A	N/A
EXTINGUISHING MEDIA: Water spray or Carbon Dioxide or Dry Chemical			
SPECIAL FIRE FIGHTING PROCEDURES: Not determined			
Autoignition Temp.: NO DATA			
UNUSUAL FIRE AND EXPLOSION HAZARDS: None			

SECTION V -REACTIVITY DATA Liquid-Live Bacteria (PYD 618)

STABILITY: UNSTABLE () CONDITION TO AVOID:
 STABLE (X) Not known

INCOMPATIBILITY (Materials to Avoid)

Strong acids or alkali compounds may inactivate biological cultures.

HAZARDOUS May Occur () CONDITIONS TO AVOID:
Polymerization May Not Occur (X) None

SECTION VI-HEALTH HAZARD DATA

ROUTE(S) OF ENTRY:

EYES: Yes
INHALATION: No
SKIN: No
INGESTION: No

Health Hazards (Acute and Chronic)

Causes eye irritation. Repeated or prolonged skin contact may cause drying or dermatitis. Ingestion may lead to or cause nausea or diarrhea. Follow good chemical hygiene practices.

CARCINOGENICITY: NTP IARC Monographs? OSHA Regulated?
 No No No

SIGNS AND SYMPTOMS OF EXPOSURE: Redness, tearing, burning in eyes. Nausea, vomiting, diarrhea if ingested. Skin overexposure may bring about drying or cracking of skin.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing skin disorders may be aggravated if the product is not properly used.

EMERGENCY AND FIRST AID PROCEDURES:

SKIN: Wash thoroughly with water. If irritation continues, call a physician.

EYE: Flush with copious amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. If irritation continues, call a physician.

INGESTION: Do not induce vomiting unless otherwise directed by a physician. Call a physician and follow recommendations given. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Caution. Slip Hazards. Dike to prevent spread. Vacuum up for reuse. Wash residuals with water.

WASTE DISPOSAL METHOD:

Dispose of waste in accordance with Federal, State, and Local ordinances.

Triple rinse empty container, then offer for recycling, reuse or reconditioning.

PRECAUTION TO BE TAKEN IN HANDLING AND STORING:

Do not take internally. Avoid contact with eyes, skin and clothing. Avoid inhalation of dusts or vapors. Wear protective equipment. Wash thoroughly after handling. Avoid dusting of powders. Keep container closed when not in use.

OTHER PRECAUTIONS: All precautions in this MSDS must be observed.

SECTION VIII- CONTROL METHODS

RESPIRATORY PROTECTION:

(Specific Type): Not usually necessary. Use with adequate ventilation.

VENTILATION:

LOCAL EXHAUST:	Normal room ventilation	SPECIAL:	None
MECHANICAL (General)	Yes	OTHER:	None

PROTECTIVE GLOVES: Only if direct contact is possible.

EYE PROTECTION: Chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT: Only if direct contact possible (ie. aprons, boots, etc.) Rec. by state regulations

WORK/HYGENIC PRACTICES: Wash thoroughly after handling.

We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions are beyond our control, user assumes all responsibility and risk.