

MANUFACTURERS NAME: **GUARD PRODUCTS INC.**
 ADDRESS: **980 77TH AVENUE OAKLAND, CA 94621**
 BUSINESS PHONE: **510-449-9097**
 NAME OF PREPARER: **G.M. Westlund**
 DATE PREPARED: **10/3/97 (revised)**

I. GENERAL

TRADE NAME	#234 Chlor-Clean, #235 Chlor-Clean LF #236 Chlorinated Foamer	TELEPHONE NUMBERS	
OTHER NAMES:	Mixture-Water/phosphates/hypochlorite/wetting agents	EMERGENCY: 1-800-424-9300 (CHEMTREC)	

CHEMICAL FAMILY	See Above	DOT Hazardous Materials Proper Shipping Name	Not Dot Regulated
GENERIC NAME			

CAS No. mixture	Company I.D. No.	UN/NA ID No.
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II SUMMARY OF HAZARDS

Physical Hazards:	Irritant to eyes and skin.		
Acute Health Effects:	Can cause irritation to body tissues.		
Chronic Health Effects:	None Known		
Health:	<input type="text" value="2"/>	Reactivity:	<input type="text" value="0"/>
HMIS Rating: Fire:	<input type="text" value="0"/>	Personal:	<input type="text" value="B"/>
(4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Insignificant)			

III FIRE AND EXPLOSION

Flash Point (Method)	Autoignition Temperature	Flammable Limits (%Volume in air)
None	Unknown N/A	Lower- N/A Upper- N/A

FIRE AND EXPLOSION HAZARD Offers no hazard under normal conditions.

EXTINGUISHING MEDIA	Foam <input type="text" value="x"/>	Water Spray <input type="text" value="x"/>	Other <input type="text"/>
	CO2 <input type="text" value="x"/>	Dry Chemical <input type="text" value="x"/>	

SPECIAL FIREFIGHTING PROCEDURES Keep containers cool with water spray.

IV HEALTH HAZARDS

INHALATION No known effects from properly stored or use product. Fumes from spills can be irritating to mucous membranes.

EYE CONTACT Can cause severe irritation, corrosive.

SKIN ABSORPTION Same as skin contact.

SKIN IRRITATION	Prolonged direct exposure may cause skin irritation, defatting and reddening.			
MATERIAL SAFETY DATA SHEET				
INGESTION	Can cause irritation to membranes of the mouth, throat, and stomach.			
SUMMARY OF CHRONIC HAZARDS AND SPECIAL HEALTH EFFECTS	None Known			
V PROTECTIVE EQUIPMENT AND OTHER CONTROL MEASURES				
RESPIRATORY	With proper ventilation none needed, however if misting applications put exposure above the safe level(TLV), a NIOSH approved respirator is recommended.			
EYE	Chemical Goggles, Face Shield			
SKIN	Chemical Resistant Gloves			
ENGINEERING CONTROLS	Adequate ventilation			
OTHER HYGIENIC AND WORK PRACTICES	Train employees in proper handling procedures in this section before allowing them to work with this product. Clean up spills immediately.			
VI OCCUPATIONAL EXPOSURE LIMITS				
	CAS No.	EXPOSURE LIMITS IN AIR		
Substance		ACGIH(TLV)	OSHA(PEL)	OTHER
Sodium Hypochlorite	7681-52-9	none listed		
Potassium Phosphate	7758-11-4	none listed		
Tetrapotassium pyrophosphate	7320-34-5	10mg/m3	15mg/m3	
NOTE: This product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.				
EMERGENCY AND FIRST AID				
INHALATION	Remove to fresh air. Call a physician if exposure is severe.			
EYE CONTACT	Flush with water for at least 15 minutes. Consult a physician.			
SKIN CONTACT	Wash exposed area. Remove contaminated clothing and wash before reuse			
INGESTION	DO NOT INDUCE VOMITING. Drink large amounts of water. Call Physician immediately. Never give anything to an unconscious person.			
EMERGENCY MEDICAL TREATMENT PROCEDURES				
VIII SPILL AND DISPOSAL				

MATERIAL SAFETY DATA SHEET

PRECAUTION IF MATERIAL IS SPILLED OR RELEASED Stop leak. Dam up area of spill. Dry floor with absorbant, Shovel into metal or plastic lined containers. Keep area clear of traffic as the floor will be extremely slippery. Clean area with usual floor cleaner.

WASTE DISPOSAL METHODS DISPOSE ACCORDING TO LOCAL, STATE & FEDERAL REGULATIONS. The uncontaminated solution is biodegradable.

IX COMPONENTS (this may not be a complete list of components)

Component Name	CAS No.	Hazardous Component	Composition Amount-(Wt.)
		Advisory	
Sodium Hypochlorite	7681-52-9	**	15-30%
Potassium Phosphate	7758-11-4	none listed	2-15%
Tetrapotassium pyrophosphate	7320-34-5	none listed	2-15%

** RQ-100#(reportable quantities)
 *-SARA Title III *** RQ-1000#(reportable quantities)

#Listed by: 1=OSHA(air) 2=OSHA(regulated substance) 3=NTP(carcinogens)
 4=ACGIH(chemicals) 5=IARC(human carcinogens) 6=DOT hazardous materials

X PHYSICAL AND CHEMICAL DATA

Boiling Point >212°F	Viscosity Units, Temp. (Method) N/AP	Dry Point
Freezing Point 32°F	Vapor Pressure Unknown	Volatile Characteristics
Specific Gravity (H2O=1) 1.19 +/-0.5	Vapor Density (Air=1 @60-90°F) Unknown	Stable X Unstable
Solubility in Water Complete	pH -conctrte 9.5 - 10.5 pH -dilute	Hazardous Polymerization Will Not Occur
Other Physical and Chemical Properties		Evaporation Rate <water

Appearance and Odor Clear/amber liquid, chlorine -mild odor.

Materials to Avoid Strong Oxidizing Agents. Acids.

Conditions to Avoid

Hazardous Decomposition Products Carbon Dioxide, Carbon Monoxide

XI ADDITIONAL PRECAUTIONS

HANDLING, STORAGE AND Keep container closed when not in use to avoid contamination.

GENERAL COMMENTS:

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling storage, use or disposal of the product.

XII

LABEL INFORMATION

MANUFACTURER: GUARD PRODUCTS INC.
4049 First Street Suite #118
Livermore, CA 94550

USE STATEMENT: For Industrial Use Only
Keep Out of Reach of Children

SIGNAL WORD:
PHYSICAL HAZARDS:

