

# MATERIAL SAFETY DATA SHEET

**MANUFACTURERS NAME:** GUARD PRODUCTS INC.  
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**DATE PREPARED:** 2/28/99 (revised)

<b>I. GENERAL</b>						
TRADE NAME <b>#425/ XHD HD Steam Cleaner</b>		TELEPHONE NUMBERS				
OTHER NAMES:		<b>EMERGENCY PHONE</b>				
		<b>CHEMTREC 1-800-424-9300</b>				
		510-635-4353				
CHEMICAL FAMILY	CAUSTIC SODA & SILICATE&SURFACTANT	DOT Hazardous Materials Proper Shipping Name				
		CORROSIVE SOLID N.O.S., UN1759				
GENERIC NAME		DOT Hazard Class				
		CORROSIVE MATERIAL				
CAS No.	Company I.D. No.	UN/NA ID No.				
		UN1759				
<b>II. SUMMARY OF HAZARDS</b>						
Physical Hazards:		Corrosive Material				
Acute Health Effects:		Can cause irritation to body tissues.				
Chronic Health Effects:		See Section IV				
(short term)		Health: <table border="1" style="display: inline-table; width: 50px; text-align: center;"><tr><td>2</td></tr></table>	2	protection: <table border="1" style="display: inline-table; width: 50px; text-align: center;"><tr><td>C</td></tr></table>	C	
2						
C						
<b>HMIS rating:</b>		Fire: <table border="1" style="display: inline-table; width: 50px; text-align: center;"><tr><td>0</td></tr></table>	0	Reactivity: <table border="1" style="display: inline-table; width: 50px; text-align: center;"><tr><td>1</td></tr></table>	1	
0						
1						
(4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Insignificant)						
<b>III. FIRE AND EXPLOSION</b>						
Flash Point (Method)	Autoignition Temperature	Flammable Limits (%Volume in air)				
none	none	Lower- Upper-				
FIRE AND EXPLOSION HAZARD	this product can react violently with acids, aluminum, tin, zinc and alloys containing these metals.					
EXTINGUISHING MEDIA						
	Foam <table border="1" style="display: inline-table; width: 50px; text-align: center;"><tr><td>X</td></tr></table>	X	Water Spray <table border="1" style="display: inline-table; width: 50px; text-align: center;"><tr><td>X</td></tr></table>	X	Other <table border="1" style="display: inline-table; width: 50px; text-align: center;"><tr><td></td></tr></table>	
X						
X						
	CO2 <table border="1" style="display: inline-table; width: 50px; text-align: center;"><tr><td>X</td></tr></table>	X	Dry Chemical <table border="1" style="display: inline-table; width: 50px; text-align: center;"><tr><td>X</td></tr></table>	X		
X						
X						
SPECIAL FIREFIGHTING PROCEDURES						
Protective clothing and pressure-demand breathing apparatus should be worn in areas where product is stored.						

<b>IV. HEALTH HAZARDS</b>	
INHALATION	airborne concentrations of dust, mist, or spray may cause respiratory tract damage, and could produce chemical pneumonia depending upon extent of exposure.

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EYE CONTACT	This product is destructive to eye tissues upon contact. Severe damage and even blindness could result.			
SKIN ABSORPTION	same as below			
SKIN IRRITATION	Severe burns to tissues contacted			
INGESTION	If swallowed, severe burns and complete tissue perforation of mucous membranes of mouth, throat, esophagus and stomach may result.			
SUMMARY OF CHRONIC HAZARDS AND SPECIAL HEALTH EFFECTS	Chronic local effect may consist of superficial destruction of skin or of primary irritant dermatitis. Inhalation of dust, spray, or mist may result in varying degrees of irritation or damage to the respiratory tract and increased susceptibility to respiratory illness.			
<b>V PROTECTIVE EQUIPMENT AND OTHER CONTROL MEASURES</b>				
RESPIRATORY	Under normal use conditions respiratory protection is not required. However, use a NIOSH/MSHA approved apparatus where dust, mist or spray are encountered.			
EYE	Face shield or goggles recommended.			
SKIN	Natural or butyl rubber gloves, boots, aprons.			
ENGINEERING CONTROLS	Adequate local ventilation should be provided where accumulations of dust, mist or spray are encountered.			
OTHER HYGIENIC AND WORK PRACTICES	All employees should be educated in the use of this product before being allowed to work with it. Employees should wash with soap and water after using this product. Eye wash & shower facilities should be accessible.			
<b>VI OCCUPATIONAL EXPOSURE LIMITS</b>				
Substance	CAS Number	Exposure Limits in Air		
		ACGIH(TLV)	OSHA(PEL)	OTHER
Sodium Hydroxide	1310-73-2	2mg/m3	2mg/m3	
Sodium Metasilicate	6834-92-0			
Sodium Tripolyphosphate	7758-29-4			

<b>VII EMERGENCY AND FIRST AID</b>	
INHALATION	Get victim into fresh air. If breathing has stopped, resuscitate and administer oxygen. (if available) Get immediate medical attention.
EYE CONTACT	Immediately flush eyes with lids held apart with large amounts of water, Continue this for at least 15 minutes. Seek immediate medical help.
SKIN CONTACT	Immediately remove contaminated clothing, wash affected area for 15 minutes. Launder clothes before reuse. Seek medical attention.
INGESTION	Never give anything by mouth to an unconscious person. If swallowed DO NOT

INDUCE VOMITING, give milk or water. Seek immediate medical attention.

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MEDICAL  
TREATMENT  
PROCEDURES

**VIII SPILL AND DISPOSAL**

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED  
Contain spill with absorbant ( if in liquid form) and neutralize with dilute inorganic acid such as sulfuric, hydrochloric, phosphoric. Place into plastic or plastic lined container pending proper disposal. CAUTION: Wear proper protective clothing, the caustic soda can react violently with acids.

WASTE DISPOSAL METHODS  
DISPOSE ACCORDING TO LOCAL, STATE & FEDERAL REGULATIONS

NOTE: NEUTRALIZE CAUSTIC WITH ACID

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

Component Name	CAS No.	Hazardous Substance Advisory #	Composition Amount-(Wt.)
Sodium Hydroxide	1310-73-2	#1,#4	60-70%
Sodium Metasilicate	6834-92-0	#4	2-20%
Sodium Tripolyphosphate	7758-29-4	#4	2-20%

\*\* RQ-1000#(reportable quantities)

\*-SARA Title III \*\*\* RQ-5000#(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

<b>X PHYSICAL AND CHEMICAL DATA</b>			
Boiling Point >212°F	Viscosity Units, Temp. (Method)		Dry Point
Freezing Point	Vapor Pressure		Volatile Characteristics
Specific Gravity (H2O=1) n/ap	Vapor Density (Air=1 @60-90°F)		Stable x Unstable
Solubility in Water complete	pH -concentrate >13 pH -dilute	Hazardous Polymerization Will Not Occur	
Other Physical and Chemical Properties		Chemical Reactivity acids, aluminum, zinc, tin and alloys	
Appearance and Odor	White or orange powder,no odor		
Materials to Avoid	aluminum, zinc, tin and alloys containing these metals		
Conditions to Avoid	Contact with strong acids or the above mentioned metals.		

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Hazardous Decomposition Products	when in contact with the above mentioned metals, potentially explosive hydrogen gas is released.
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***XI***

***ADDITIONAL PRECAUTIONS***

HANDLING,  
STORAGE AND  
DECONTAMINATION  
PROCEDURES

Keep product in cool, dry storage area.  
Keep container closed when not in use to avoid contamination

GENERAL COMMENTS

ADD PRODUCT SLOWLY TO COOL WATER  
(AVOID ADDING TO HOT WATER)

***DISCLAIMER OF LIABILITY***

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