

MATERIAL SAFETY DATA SHEET

MANUFACTURERS NAME: GUARD PRODUCTS INC.
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DATE PREPARED: 3/13/02 (revised)

I. GENERAL				
TRADE NAME #412 H.D. Cleaner	TELEPHONE NUMBERS EMERGENCY PHONE CHEMTREC 1-800-424-9300 510-635-4353			
OTHER NAMES:				
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. mixture	Company I.D. No.	UN/NA ID No. UN1759		
II. SUMMARY OF HAZARDS				
Physical Hazards:	Corrosive Material			
Acute Health Effects:	Can cause irritation to body tissues.			
Chronic Health Effects: (short term)	See Section IV			
HMIS rating:	Health: <table border="1" style="display:inline-table; text-align:center;"><tr><td>2</td></tr></table>	2	protection: <table border="1" style="display:inline-table; text-align:center;"><tr><td>C</td></tr></table>	C
2				
C				
	Fire: <table border="1" style="display:inline-table; text-align:center;"><tr><td>0</td></tr></table>	0	Reactivity: <table border="1" style="display:inline-table; text-align:center;"><tr><td>1</td></tr></table>	1
0				
1				
(4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Insignificant)				
III. FIRE AND EXPLOSION				
Flash Point (Method) none	Autoignition Temperature none	Flammable Limits (%Volume in air) 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; text-align:center;"><tr><td>X</td></tr></table>	X	Water Spray <table border="1" style="display:inline-table; text-align:center;"><tr><td>X</td></tr></table>	X
X				
X				
	CO2 <table border="1" style="display:inline-table; text-align:center;"><tr><td>X</td></tr></table>	X	Dry Chemical <table border="1" style="display:inline-table; 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.			

IV. HEALTH HAZARDS	
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.		
V PROTECTIVE EQUIPMENT AND OTHER CONTROL MEASURES			
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.		
VI OCCUPATIONAL EXPOSURE LIMITS			
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		
Trisodium Phosphate	7601-54-9		
Sodium Carbonate	497-19-8		
Sodium Tripolyphosphate	7758-29-4		

VII EMERGENCY AND FIRST AID	
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

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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
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GENERAL COMMENTS	ADD PRODUCT SLOWLY TO COOL WATER (AVOID ADDING TO HOT WATER)
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DISCLAIMER OF LIABILITY

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