

MATERIAL SAFETY DATA SHEET

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DATE PREPARED: 10/4/2004

I. GENERAL					
#213 HEAVY DUTY CLEANER		TELEPHONE NUMBERS			
NAME		EMERGENCY:			
OTHER NAMES: Mixture-Water/surfactants/sodium hydroxide		CHEMTREC 1-800-424-9300 510-635-4353			
DOT Hazardous Materials Proper Shipping Name Compound, cleaning liquid (contains potassium hydroxide, solution) 8, UN1760					
CAS No.	Emergency Response Guide#				
	I.D. No. 154				
II. SUMMARY OF HAZARDS					
Physical Hazards:		Corrosive Material			
Acute Health Effects:		Can cause irritation and damage 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)	Autoignition Temperature	Flammable Limits (%Volume in air)			
none	none	Lower-	Upper-		
FIRE AND EXPLOSION HAZARD	under certain conditions 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 PROCEDURES					
FIRE FIGHTING PROCEDURES	Protective clothing and pressure-demand breathing apparatus should be worn in areas where product is stored.				

IV HEALTH HAZARDS				
MATERIAL SAFETY DATA SHEET				
INHALATION	airborne concentrations of dust, mist, or spray may cause respiratory tract damage, and could produce chemical pneumonia depending upon extent of exposure.			
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
Potassium Hydroxide	1310-58-3	2mg/m3	2mg/m3	
Sodium Metasilicate	6834-92-0			
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	Immediately flush eyes with lids held apart with large amounts of water,

CONTACT	Continue this for at least 15 minutes. Seek immediate medical help.
SKIN	Immediately remove contaminated clothing, wash affected area for 15 minutes.
CONTACT	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.
EMERGENCY 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
IX	COMPONENTS (this may not be a complete list of components)
Component Name	CAS No. Hazardous Substance Advisory # Composition Amount-(Wt.)
Potassium Hydroxide-50%	1310-58-3 #1,#4 5-30%
Sodium Metasilicate	6834-92-0 #4 2-20%
Sodium Tripolyphosphate	7758-29-4 #4 2-20%
#Listed by:	1=OSHA-AIR 2=OSHA-REGULATED SUBSTANCE 3=NTP-Carcinogens 4=ACGIH Chemicals 5=IARC Human Carcinogens

X				PHYSICAL AND CHEMICAL DATA			
Boiling Point >212°F		Viscosity Units, Temp. (Method)			Dry Point		
Freezing Point		Vapor Pressure			Volatile Characteristics		
Specific Gravity (H2O=1) 1.15		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	Red/clear Liquid	
Materials to Avoid	aluminum, zinc, tin and alloys containing these metals	
Conditions to Avoid	Contact with strong acids or the above mentioned metals.	
Hazardous Decomposition Products	when in contact with the above mentioned metals, potentially explosive hydrogen gas is released.	
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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