

KLEENCO PRODUCTS, INC. • P.O. BOX 1786 • Bellevue, WA. 98009

TELEPHONE NUMBER Reg. Phone 206-641-8888

For Emergency Assitance Call Infotrac (800) 535-5053

HAZARD RATING FIRE 4 = EXTREME **REACTIVITY** 3 = HIGH 2 = MODERATE 2 0 1 = SLIGHT 0 = INSIGNIFICANT **SPECIAL**

*= SEE SECTION IV

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PRODUCT NAME DESCALE		DATE ISSUED	04-28-93	CODE	DOT HAZARD	
		PREPARED BY	Dale R. Silbaugh	024-0035	Corrosive NA-1760	
FORMULA Proprietary	CHEMICAL NAMES AND (OR SYNONYMS	Compound Cleaning Liquid		NA-1700	
Proprietary Compound Cleaning Liquid I - COMPOSITIONAL INFORMATION/SARA III INFORMATION						
	CAS NUMBER	OCCUPATION EXP		VAPOR PRESSURE	WEIGHT	
INGREDIENTS		OSHA PEL ACGI	H TLV OTHER	mm Hg @ TEMP	PERCENT	
*Hydrochloric Acid 20°	7647-01-0	5 PPM 5 PPI	M None	30.0 68°F	8.0	
*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Tittle III and 40 CFR 342. NOTE: The precise composition of this mixture is proprietary. A more complete description will be provided to a physician in the event of a medical emergency.						
II - PHYSICAL PROPERTY INFORMATION						
APPEARANCE and ODOR Water thin, red liquid						
MELTING POINT BOILING POINT		COATING V	COATING V.O.C. EVA		N RATE	
Not Applicable	Not Available		Applicable	Not Applicable		
SOLUBILITY IN WATER Complete	SPECIFIC GRAVITY (Water = 1) 1.0		_			
Complete 1.0 Not Applicable III - FIRE AND EXPLOSION HAZARD INFORMATION						
FLASH POINT	AUTO IGNITION TEMPERATUR	1 -	LOSION LIMIT (%)	UPPER EXPLOSION LIMIT (%)		
Not Applicable EXTINGUISHING MEDIA	Not Applicable	Not Applicable Not Applicable				
X FOAM X CO ₂ X DRY CHEMICAL X WATER SPRAY OTHER						
SPECIAL FIRE FIGHTING PROCEDURES For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Read the entire MSDS.						
UNUSUAL FIRE AND EXPLOSION HAZARDS Extinguish all nearby sources of ignition since flammable hydrogen gas will be liberated from contact with some metals.						
IV - HEALTH HAZARD INFORMATION						
THRESHOLD LIMIT VALUE ROUTE Not Established OF ENT		χSKIN	loolth Llozordo	X INGESTION See Health Ha	zordo	
Not Established OF ENT HEALTH HAZARDS (Acute and Chronic)	Gee Health Hazards		lealth Hazards av result in areas of destructi			
HEALTH HAZARDS (Acute and Chronic) CHRONIC EFFECTS OF EXPOSURE for Hydrochloric Acid: May result in areas of destruction of skin tissue or primary irritant dermatitis. Similarly, inhalation of vapors or mists may cause varying degrees of damage to the affected tissues and also increasing susceptibility to respiratory illness.						
OA DOINGO SHIGHTY						
ARCINOGENICITY: Not considered to be a carcinogen NTP IARC Monographs X OSHA Regulated						
SIGNS AND SYMPTOMS OF EXPOSURE INHALATION: Vapors and mists are extremely corrosive to the nose, throat, and mucous membranes. Bronchitis, pulmonary edema, and chemical pneumonitis may occur with brief exposure while prolonged exposure may result in more severe irritation and tissue damage. Breathing high concentrations may result in death. EYE CONTACT: Vapors, liquid, and mists are extremely corrosive to the eyes. Brief contact of the vapors will be severely irritating. Brief contact of the liquid or mists will severely damage the eyes and prolonged contact may cause permanent eye injury which may be followed by blindness. SKIN CONTACT: Vapors, mists, and liquid are extremely corrosive to the skin. Vapors will severely irritate the skin and liquid and mists will severely burn the skin. Prolonged liquid contact will burn or destroy surrounding tissue and death may accompany burns which extend over large portions of the body. SWALLOWED: Vapors, mists, and liquid are extremely corrosive to the mouth and throat. Swallowing the liquid burns the tissues, causes severe abdominal pain, nausea, vomiting, and collapse. Swallowing large quantities can cause death.						
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE None Known						
emergency and first aid proced and upper lids. Get medical attention immediate contaminated skin with water. If this chemical pen breathes large amounts of this chemical, move that rest. Get medical attention as soon as possible.	ely. Contact lenses should not be worn w netrates the clothing, immediately remove the ne exposed person to fresh air at once. If bi	when working with this ch he clothing and flush the s reathing has stopped, per	nemical. SKIN: If this chemi skin with water. Get medical rform mouth-to-mouth resus	ical contacts the skin, im attention promptly. INHA	mediately flush the LATION: If a person	

V - REACTIVITY INFORMATION					
X STABLE UNSTABLE CONDITIONS TO AVOID None					
HAZARDOUS DECOMPOSITION PRODUCTS May liberate Hydrogen Chloride					
HAZARDOUS MAY WILL NOT CONDITIONS TO AVOID POLYMERZATION OCCUR X OCCUR Not Applicable					
INCOMPATIBILITY (Materials to avoid) that bis-chloromethyl ether, a potential carcinogen, may be formed. Also keep away from amines, vinyl acetate, propylene oxide, beta-propiolactone, and metal oxides.					
VI - SPILL OR LEAK PROCEDURE INFORMATION					
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Stop the source of leak or release. Clean up releases as soon as possible, observing precautions is Special Protective Information. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.					
WASTE DISPOSAL METHODS Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental authorities for approved disposal of this material.					
VII - SPECIAL PROTECTION INFORMATION					
VENTILATION TYPE Local mechanical exhaust ventilation, capable of maintaining emissions at the point of use below the PEL.					
RESPIRATORY PROTECTION Wear a NIOSH-Approved respirator, appropriate for the concentration of vapor or mist encountered at the point of use.					
PROTECTIVE GLOVES Impervious EYE PROTECTION Wear eye protection to prevent any possibility of eye contact.					
OTHER PROTECTIVE EQUIPMENT contact with solutions having a pH >3. Wear appropriate equipment to prevent any possibility of skin contact with solutions having a pH <3 and repeated or prolonged skin contact with solutions having a pH >3.					
VIII - STORAGE AND HANDLING INFORMATION					
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Keep out of reach of children. Store in a cool dry place away from incompatible materials. Keep container tightly closed when not in use. Workers should wash immediately when skin becomes contaminated with liquid of pH <3 and promptly when skin becomes wet with liquid of pH >3. Remove clothing immediately if it is non-impervious clothing that becomes contaminated with liquid of pH <3 and promptly if clothing is contaminated with liquid of pH >3. The following equipment should be available: Eyewash. Quick drench for liquids with pH <3. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of the injury.					
OTHER PRECAUTIONS Read and follow label instructions. The label contains information necessary for the proper use of the product. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.					
IX - TOXICITY INFORMATION					
On the basis of available information this material does not appear to possess any toxicological properties which would require special handling other than good industrial hygiene and safety practices employed with any industrial chemical.					
X - MISCELLANEOUS INFORMATION					
A MISCELLANEOUS INTORMATION					
Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and the removal of the material from eyes, skin and clothing.					
PRODUCT CODE NA = NOT AVAILABLE DATE OF ISSUE SUPERSEDES SIGNED 024-0035 NA = NOT AVAILABLE DATE OF ISSUE Any previous MSDS					
The information contained herein is based on data considered accurate. However no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained					

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