FOR QUALITY, VALUE AND PE KLEENCO PRODUCTS, IN	TELEPHONE NUMBER Reg. Phone 206-641-8888 For Emergency Assitance Call Infotrac <b>(800) 535-5053</b>			HAZARD RATING 4 = EXTREME 3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICANT + SEI SEI SEICTION IV			FIRE 0 REACTIVITY 1 0 SPECIAL			
• P.O. BOX 1786 • Bellevue, WA		(,		<b>*=</b> 5	SEE SECTION IV	/		SPECIAL		
MATERIAL SAFETY DATA SHEET										
PRODUCT NAME		DATE		TE ISSUED 02-17-93		-17-93	CODE		DOT HAZARD	
PERK	PREPARED B						000 0110	Corrosive		
FORMULA	AL NAMES AND OR SYNONYMS				Dale R. Silbaugh Compound Cleaning Liquid		028-0110	NA-1760		
I - COMPOSITIONAL INFORMATION/SARA III INFORMATION										
		NUMBER OCCUPATION EXPOUSURE LIMITS					VAPOR PRESSURE WEIGHT			
	INGREDIENTS		OS OS			HA PEL ACGIH TLV OTHER			PERCENT	
Citric Acid Anhydrous *Phosphoric Acid 75%	Anhydrous         77-9           ic Acid 75%         7664		2-9 None I-38-2 1 MG/I						33%	
I I *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 Viscous, blue liquid, pleasing mint fragrance			-			-				
MELTING POINT				COATING V.O.C.			EVAPORATION		RATE	
Not Applicable		°-482°F.		Not Applicable		able		Slower that	an ether	
		VITY (Water = 1)		VAPOR DENSITY						
Complete     1.1     Heavier than air										
III - FIRE AND EXPLOSION HAZARD INFORMATION										
FLASH POINT AUTO IGNITIO		N TEMPERATURE		LOWER EXPLOSION LIMIT (%)			U	UPPER EXPLOSION LIMIT (%)		
		pplicable		Not Applicable				Not Applicable		
EXTINGUISHING MEDIA X FOAM X CO <sub>2</sub> 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 EN		HALATION See Health Hazard	IALATION See Health Hazards		N e Health	Hazards	Х	X INGESTION See Health Hazards		
HEALTH HAZARDS (Acute and Chronic) CHRONIC EFFECTS OF EXPOSURE for Phosphoric 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.										
Similarly, initialation of vapors of mists may caus	se varynng degrees o	n damaye to the an			ncreasing	g susceptionity to respira	atory i	iness.		
CARCINOGENICITY: Not considered to be a carcinogen	IARC Monographs			Х	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. Irritation, coughing, chest pain, and difficulty in breathing 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 Persons with pre-existing skin disorders, eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of Phosphoric Acid.										
EMERGENCY AND FIRST AID PROCEI and upper lids. Get medical attention immediat contaminated skin with water. If this chemical per breathes large amounts of this chemical, move th at rest. Get medical attention as soon as possib	ely. Contact lenses netrates the clothing, ne exposed person to	should not be worr immediately remov o fresh air at once. I	n when wo re the clothi If breathing	king with this ng and flush t has stopped	s chemica he skin w , perform	ith water. Get medical a mouth-to-mouth resuse	al cor	itacts the skin, im on promptly. INHA	mediately flush the LATION: If a person	

V - REACTIVITY INFORMATION									
X STABLE UNSTABLE CONDITIONS TO AVOID None									
HAZARDOUS DECOMPOSITION PRODUCTS May liberate Phosphorous Oxides									
HAZARDOUS MAY WILL NOT CONDITIONS TO AVOID POLYMERZATION OCCUR X OCCUR Not Applicable									
INCOMPATIBILITY (Materials to avoid) Alkalis, oxidizing or reducing materials, cyanides, sulfides, combustible materials, active metals, mild steel, copper, brass, and bronze.									
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 Wear appropriate equipment to prevent any possibility of skin contact with solutions having a pH <3 and repeated or prolonged skin 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. Work clothing should be changed daily if there is any possibility that the clothing may be contaminated. Remove clothing immediately if it is non-impervious clothing that becomes contaminated. The following equipment should be available: Eyewash. Quick drench. 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									
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       028-0110     02-17-93     08-09-90     0     0									
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