KLEENCO PRODUCTS, INC. • P.O. BOX 1786 • Bellevue, WA. 98009		TELEPHONE NUMBER Reg. Phone 206-641-8888 For Emergency Assitance Call Infotrac (800) 535-505							REACTIVITY 0 SPECIAL	
MATERIAL SAFETY DATA SHEET										
PRODUCT NAME				TE ISSUE		3-06-95	CO	DE	DOT HAZARD	
COIL KLEENER			EPARED BY Dale R. Silbaugh				022-0116	Corrosive NA-1760		
FORMULA Proprietary	AL NAMES AND OR SYNONYMS Compound Cleaning Liquid									
I - COMPOSITIONAL INFORMATION/SARA III INFORMATION										
045		NUMBER OCCUPATION EXPOUSURE LIMITS						APOR PRESSURE WEIGHT		
INGREDIENTS			HA PEL ACGIH TLV OTHER				n Hg @ TEMP	PERCENT		
Ammonium Bifluoride1341Citric Acid Anhydrous77-92*Phosphoric Acid 75%7664			None None None			3 2.5 MG/M3 None None		ot Applicable ot Applicable 0 68°F.	14%	
*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title 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 Slightly viscous, purple liquid, cinnamon odor										
MELTING POINT BOILING POIN			COATING V.O.C.			EVAPORATION RATE				
		² -482°F. AVITY (Water = 1)		N VAPOR D			_	Slower th	an ether	
Complete	with (water –	Heavier than air								
Complete 1.1 Heavier than air III - FIRE AND EXPLOSION HAZARD INFORMATION										
FLASH POINT AUTO IGNITIO		N TEMPERATURE		LOWER EXPLOSION LIMIT (%)			L	UPPER EXPLOSION LIMIT (%)		
		Applicable		Not Applicable				Not Applicable		
EXTINGUISHING MEDIA										
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										
			HALATION See Health Hazards		X SKIN See 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. *See Section IX.										
CARCINOGENICITY: Not considered to be a carcinogen	NTP	IAR	RC Mono	graphs	Х	OSHA Regulate	d			
SIGNS AND SYMPTOMS OF EXPOSUF chemical pneumonitis may occur. Irritation, coug tissue damage. Breathing high concentrations m irritating. Brief contact of the liquid or mists will sev mists, and liquid are extremely corrosive to the sk tissue and death may accompany burns which ex the liquid burns the tissues, causes severe abdo	hing, chest pain, and ay result in death. E` rerely damage the eyo in. Vapors will severe xtend over large port	d difficulty in breathi YE CONTACT: Vap es and prolonged co ely irritate the skin ar ions of the body. SV	ing may oc ors, liquid, ontact may nd liquid an WALLOWE	cur with brief and mists are cause permar d mists will se D: Vapors , n	exposure e extreme nent eye i everely bu nists, and	e while prolonged exp ely corrosive to the ey njury which may be fo Irn the skin. Prolonged I liquid are extremely	osure m es. Brie lowed b l liquid c	nay result in more of contact of the va by blindness. SKIN contact will burn or	severe irritation and pors will be severely CONTACT: Vapors, destroy surrounding	
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 upper lids. Get medical attention immediately. Co skin with water. If this chemical penetrates the clo amounts of this chemical, move the exposed pers attention as soon as possible. INGESTION: If th	ntact lenses should r thing, immediately re on to fresh air at once	not be worn when we emove the clothing a e. If breathing has sto	orking with and flush th opped, perf	this chemical le skin with wa form mouth-to	l. SKIN: If ater. Get r o-mouth re	medical attention pror	s the ski 1ptly. IN	in, immediately flu IHALATION: If a p	ish the contaminated erson breathes large	

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 with solutions having a pH >3. Wear appropriate equipment to prevent any possibility of 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. 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									
*HEALTH HAZARDS for Ammonium Bifluoride: ACUTE HEALTH EFFECTS: Inhalation - Breathing dust can cause corrosion of the mucous membranes and severe irritation of the respirator tract. EYE CONTACT: Dust irritates and burns the eyes. SKIN CONTACT: Dust causes severe irritation of the skin and fluoride-like burns, which may not be immediately evident. SWALLOWED Dusts or solids are corrosive to the mouth and throat. Swallowing dusts or solids causes severe irritation of the mouth, throat, and digestive tract accompanied by severe pain, vomiting, an collapse. Fluoride poisoning can occur with large doses. Symptoms include calcification of the ligaments and severe bone changes making normal movements painful, mottling of the teeth pulmonary fibrosis, anemia, anorexia wasting and cachexia, and dental effects. The respiratory, circulatory, gastric, intestinal, and nervous system can be affected. There may be an impairmen of growth in younger persons. Flouride poisoning can be fatal. CHRONIC EFFECTS OF EXPOSURE: See Swallowed. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Exposures can aggravate asthma attacks.									
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 022-0116 03-06-95 Any Previous MSDS I all R									
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PAGE 2 - 022-0116									