

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

4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT
* = SEE SECTION IV

FIRE

0 REACTIVITY
2 0

REACTIVITY
5 SPECIAL

MATERIAL SAFFTY DATA SHFFT

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PRODUCT NAME				DA	TE ISSU	ED ()4-28-93		CODE		DOT HAZARD	
KLEEN-N-SAFE ((Quarr	y-Tile	Grade)	PR	EPARED	ВҮ	Dale R.:	Silbaugh	017-007	7 3	Corrosive NA-1760	
FORMULA Proprietary CHEMICAL NAMES AND OR SYNONYMS Compound Cleaning Liquid												
I-COMPOSITIONAL INFORMATION/SARA III INFORMATION												
INGREDIENTS		CAS NUMBER			OCCUPATION EXPOUSURE LIMITS OSHA PEL ACGIH TLV OTHER				VAPOR PRESSURE WEIGHT mm Hq @ TEMP PERCENT			
* Hydrofluoric Acid	icid 7664-39-3			3PPM 3PPM None				130.0 68°F 4.0%				
*Indicates taxis chamical(s) subject to the congrigar equirements of section 212 of Tittle III and 40 CED 242 NOTE: The precise composition of this mixture is proprietary. A more complete												
*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, blue liquid									_			
MELTING POINT	BOILING POINT				COATING V.O.C.				EVAPORATION RATE			
NotApplicable SOLUBILITY IN WATER	Not Available SPECIFIC GRAVITY (Water = 1			1)	Not Applicable VAPOR DENSITY				Not Applicable			
Complete	1.0				Not Applicable							
III-FIRE AND EXPLOSION HAZARD INFORMATION												
FLASH POINT	AUTO IGNITION TEMPERATUR				LOWER EXPLOSION LIMIT (%)				UPPER EXPLOSION LIMIT (%)			
Not Applicable Not Applicable					Not Applicable					Not Applicable		
EXTINGUISHING MEDIA X FOAM X CO2 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	UTE(s) X INHALATION See Health Hazards				X SKIN See Health Hazards			ls	_ ^	STION Health Haz	vards	
HEALTH HAZARDS (Acute and Chronic) CHRONIC EFFECTS OF EXPOSURE for Hydrofluoric Acid: Dilute solutions may not be painful or show visible effects until hours after skin exposure, during which time the acid has penetrated the skin causing possible destruction of tissue and development of skin ulcers. This acid is extremely irritating and readily penetrates the skin to attack underlying tissue and bone and its burns are slow to heal. Any form of exposure may cause secondary hypocalcemia; If treatment is delayed death may result. May also produce gangrene or cause fluorosis.												
CARCINOGENICITY: 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. 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. 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. Solutions as dilute as 2% or less of Hydrofluoric acid may cause burns. 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 Kn	own											
EMERGENCY AND FIRST AID PROCE upper lids. Get medical attention immediately. Co skin with water. If this chemical penetrates the clo amounts of this chemical, move the exposed persuattention as soon as possible. INGESTION: If this	ntact lense thing, imme on to fresh a	s should not be ediately remove air at once. If bre	e worn when wo e the clothing a eathing has sto	orking with nd flush th pped, perf	this chemic e skin with v orm mouth-	al. SKIN: vater. Get to-mouth	If this che medical	emical contacts attention prom	the skin, imme ptly. INHALATI	diately flus ON: If a pe	h the contaminated rson breathes large	

V-REACTIVITY INFORMATION									
X STABLE UNSTABLE CONDITIONS TO AVOID Excessive heat and contamination of any kind.									
HAZARDOUS DECOMPOSITION PRODUCTS MayliberateHF.									
HAZARDOUS MAY WILL NOT CONDITIONS TO AVOID POLYMERZATION OCCUR X OCCUR NotApplicable									
INCOMPATIBILITY (Materials to avoid) Strong alkalies at high temperatures, strong acids and strong oxidizers									
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.									
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. 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. Prohibit smoking, flames and sparks near HF storage areas.									
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 017-0073 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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