

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

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For Emergency Assitance Call Infotrac (800) 535-5053

FIRE HAZARD **RATING** 0 4 = EXTREME REACTIVITY 3 = HIGH2 = MODERATE 0 = INSIGNIFICANT 1 = SLIGHTSPECIAL

\* = SEE SECTION IV

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME				DATE ISSUED 04-28-93				DE	DOT HAZARD	
KLEEN-CHLOR 5%				EPARED	Dale R	. Silbaugh		024-0068	Not Regulated	
FORMULA Proprietary		CHEMICAL NAMES AND	OR SY	'NONYM	S Compoun	d Cleaning Liquic	t			
I-COMPOSITIONAL INFORMATION/SARA III INFORMATION										
INGREDIENTS		CAS NUMBER	NUMBER OCCUPATION OSHA PEL		EXPOUSURE ACGIH TLV	LIMITS OTHER	VAPO mm	R PRESSURE Hg @ TEMP	WEIGHT PERCENT	
Sodium Hypochlorite		Mixture	None		None	None	0.9	) 125°F.		
No toxic chemical(s) subject to the reporting requirements of section 313 of Tittle III and 40 CFR 342. <b>NOTE:</b> 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, yellow-green liquid with a chlorine odor.										
ELTING POINT NotApplicable  BOILING POINT 219°F.			COATING V.O.C.  Not Applicable				EVAPORATION RATE Slower than ether			
NotApplicable SOLUBILITY IN WATER	SPECIFIC GRAVITY (Water = 1)			VAPOR DENSITY				Slower than ether		
Complete 1.2 Not Applicable										
III-FIRE AND EXPLOSION HAZARD INFORMATION										
FLASH POINT	AUTO IGNITION TEMPERATURE			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 Use National Institute of Occupational Safety & Health (NIOSH) approved respirator with acid type canister or use self-contained breathing apparatus. Read the entire MSDS.										
UNUSUAL FIRE AND EXPLOSION HAZARDS sition. Decomposition products may include chlorine.  Material is a strong oxidizer. Contact with combustibles may initiate or promote combustion. Acid and heat accelerate decomposition. Decomposition products may include chlorine.										
IV-HEALTH HAZARD INFORMATION										
THRESHOLD LIMIT VALUE ROUTE(s) Not Established OF ENTRY:		X INHALATION See Health Hazards		X SI	X SKIN See Health Hazards			X INGESTION See Health Hazards		
HEALTH HAZARDS (Acute and Chronic) CHRONIC EFFECTS OF EXPOSURE: EYE: Can cause damage. SKIN: Can cause damage, chemical burns.										
CARCINOGENICITY: Not considered to be a carcinogen  NTP  IARC Monographs  X  OSHA Regulated										
SIGNS AND SYMPTOMS OF EXPOSUR Severe irritant; corrosive. SKIN CONTACT: Seve the mouth, throat, and stomach pain and possible	re irritar	it, reddening of skin, skin damage	e. SKIN A	ABSORPT	TON: Same as sk	kin contact. SWA	rom pro LLOW!	perly stored soluti ED: Causes irritati	on. EYE CONTACT: on of membranes of	
MEDICAL CONDITIONS GENERALLY A	GGRA'	VATED BY EXPOSURE	None re	ported						
EMERGENCY AND FIRST AID PROCED upper lids. Get medical attention immediately. Conskin with water. If this chemical penetrates the cloth	URES tact lens ning, imr	EYES: If this chemical contacts ses should not be worn when work nediately remove the clothing and	the eyes king with	s, immedia this chemi e skin with	tely wash the eye cal. SKIN: If this c water. Get medic	es with large amou chemical contacts cal attention prom	unts of v s the ski ptly. IN	vater, occasionally in, immediately flu HALATION: If a pe	r lifting the lower and shithe contaminated erson breathes large	

amounts of this chemical, move the exposed person to fresh air at once. Call a physician if exposure is severe. INGESTION: If this chemical has been swallowed, get medical attention

V-REACTIVITY INFORMATION							
X STABLE UNSTABLE CONDITIONS TO AVOID Solutions are fairly stable in concentrations below 10%. Stability decreases with concentration, heat, light, exposure, decreases in pH, and contamination with heavy metals, such as nickel, cobalt, copper, and iron.							
HAZARDOUS DECOMPOSITION PRODUCTS Hypochlorous Acid (HOCL), chlorine, hydrochloric acid. Composition depends upon temperature and decrease in pH. Additional decomposition products, which depend upon pH, temperature and time, are sodium chloride, sodium chlorate and oxygen.							
HAZARDOUS POLYMERZATION MAY WILL NOT CONDITIONS TO AVOID Not Applicable							
INCOMPATIBILITY (Materials to avoid) Acids, alcohols, amines, ammonia, chlorinated isocyanurates, combustibles, cyanides, detergents, ethers, hydrocarbons, oxidizable materials, reducing agents. Corrosive to most metals.							
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 in 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. Work clothing should be changed daily if it is reasonably probable that the clothing may be contaminated. Remove clothing immediately if it is non-impervious clothing that becomes contaminated. The following equipment should be provided; 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.							
V MICCELL ANICOLICINICODA (ATIONI							
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  024-0068							
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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