

KLEENCO PRODUCTS, INC.
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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 ISSU	DATE ISSUED 04-12-93			DOT HAZARD	
KLEEN-CHLOR	12%		PREPARED	BY Dale R.	Silbaugh	024-0070	Corrosive UN-1791	
FORMULA Proprietary	(	CHEMICAL NAMES AND (	OR SYNONYM	2	d Cleaning Liquid			
I-COMPOSITIONAL INFORMATION/SARA III INFORMATION								
INGREDIENTS		CAS NUMBER	OCCUPATION OSHA PEL	EXPOUSURE ACGIH TLV	LIMITS OTHER	VAPOR PRESSURE mm 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.								
MELTING POINT	BOILIN	G POINT	COATING V.O.C.			EVAPORATION RATE		
NotApplicable SOLUBILITY IN WATER	SDECIE	219°F. TIC GRAVITY (Water = 1)	VAPOR	Not Applicable DENSITY		Slower than ether		
Complete	JI LUII	1.2	VALOR	Not Applicable				
III-FIRE AND EXPLOSION HAZARD INFORMATION								
FLASH POINT	AUTO IGNITION TEMPERATURE		E LOWER	EXPLOSION	LIMIT (%)	UPPER EXPLOSION LIMIT (%)		
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 Not Established OF ENT		X INHALATION See Health Hazards	χSI	(TN See Health Haza	rds	X INGESTION See Health Ha	zards	
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 OS	HA Regulated	I		
SIGNS AND SYMPTOMS OF EXPOSURE INHALATION: Fumes from spill are very irritating to mucous membranes. Very little hazard from properly stored solution. EYE CONTACT: Severe irritant; corrosive. SKIN CONTACT: Severe irritant, reddening of skin, skin damage. SKIN ABSORPTION: Same as skin contact. SWALLOWED: Causes irritation of membranes of the mouth, throat, and stomach pain and possible ulceration. LD50 (oral, rat) for 12.5% NaOCL is approximately 5 g/kg body weight.								
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE None reported								
EMERGENCY AND FIRST AID PROCE upper lids. Get medical attention immediately. Co skin with water. If this chemical penetrates the clot amounts of this chemical, move the exposed pe	hina. imm	ediately remove the clothing and	flush the skin with	water. Get medic	al attention promp	otly. INHALATION: If a pe	rson breathes large	

V. DE A CTIVITY/INTEGRA A TION						
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 MAY WILL NOT CONDITIONS TO AVOID OCCUR X OCCUR NotApplicable						
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 ANEQUE INFORMATION						
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  024-0070						
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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