

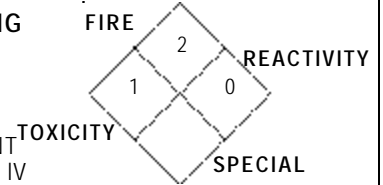


KLEENCO
FOR QUALITY, VALUE AND PERFORMANCE

KLEENCO PRODUCTS, INC.
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TELEPHONE NUMBER
Reg. Phone
206-641-8888
For Emergency Assistance
Call Infotrac (800) 535-5053

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



MATERIAL SAFETY DATA SHEET

PRODUCT NAME KLEER LINE	DATE ISSUED 04-28-93	CODE	DOT HAZARD
	PREPARED BY Dale R. Silbaugh	022-0078	Combustible NA-1993
FORMULA Proprietary	CHEMICAL NAMES AND OR SYNONYMS Compound Cleaning Liquid		

I-COMPOSITIONAL INFORMATION/SARA III INFORMATION

INGREDIENTS	CAS NUMBER	OCCUPATION EXPOSURE LIMITS OSHA PEL ACGIH TLV OTHER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
No 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 Clear, orange colored liquid with strong citrus odor.			
MELTING POINT Not Applicable	BOILING POINT 310°F.	COATING V.O.C. Not Applicable	EVAPORATION RATE Slower than ether
SOLUBILITY IN WATER Negligible	SPECIFIC GRAVITY (Water = 1) 0.84	VAPOR DENSITY (Air=1) 0.012	

III-FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT 115°F (TCC)	AUTO IGNITION TEMPERATURE Not Available	LOWER EXPLOSION LIMIT (%) 0.7%	UPPER EXPLOSION LIMIT (%) 6.1%
EXTINGUISHING MEDIA <input checked="" type="checkbox"/> FOAM <input checked="" type="checkbox"/> CO ₂ <input checked="" type="checkbox"/> DRY CHEMICAL <input type="checkbox"/> WATER SPRAY <input type="checkbox"/> OTHER			
SPECIAL FIRE FIGHTING PROCEDURES SCBA recommended, smother to exclude air. Do not use water, handle as an oil fire Class B fire procedures.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Combustible liquid. Keep away from heat, sparks, and open flame.			

IV-HEALTH HAZARD INFORMATION

THRESHOLD LIMIT VALUE	ROUTE(S) OF ENTRY: <input type="checkbox"/> INHALATION <input checked="" type="checkbox"/> SKIN <input type="checkbox"/> INGESTION See Health Hazards
HEALTH HAZARDS (Acute and Chronic) CHRONIC EFFECTS OF EXPOSURE: The following health hazard has been determined. Harmful if swallowed. May be irritating to skin and eyes. FEMA and FDA list d-limonene as GRAS - "generally recognized as safe."	
CARCINOGENICITY: Not considered to be a carcinogen <input type="checkbox"/> NTP <input type="checkbox"/> IARC Monographs <input checked="" type="checkbox"/> OSHA Regulated	
SIGNS AND SYMPTOMS OF EXPOSURE None Known.	
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE None Known.	
EMERGENCY AND FIRST AID PROCEDURES EYES: If this chemical contacts the eyes, promptly wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention if any discomfort continues. Contact lenses should not be worn when working with this chemical. SKIN: If this chemical contacts the skin, promptly flush the contaminated skin with soap and water. If this chemical penetrates the clothing, promptly remove the clothing and flush the skin with water. If irritation persists after washing, get medical attention. INHALATION: If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Other methods are usually unnecessary. INGESTION: If this chemical has been swallowed, get medical attention immediately.	

V - REACTIVITY INFORMATION

<input checked="" type="checkbox"/> STABLE	<input type="checkbox"/> UNSTABLE	CONDITIONS TO AVOID Excessive heat.	
HAZARDOUS DECOMPOSITION PRODUCTS Smoke may be acrid and fumes irritating. Burning generates CO, CO2, and smoke. Product is not an oxygen donor.			
HAZARDOUS POLYMERIZATION	<input type="checkbox"/> MAY OCCUR	<input checked="" type="checkbox"/> WILL NOT OCCUR	CONDITIONS TO AVOID Polymerization catalysts such as aluminum chloride.
INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents and acidic agents, including clays. Reacts explosively with Iodine Pentafluoroethylene.			

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 reasonable probability of eye contact.
OTHER PROTECTIVE EQUIPMENT Wear appropriate equipment to prevent any repeated or prolonged skin contact.			

VIII - STORAGE AND HANDLING INFORMATION

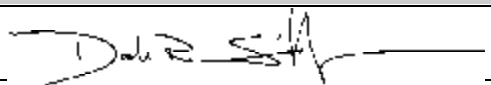
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Keep out of reach of children. Store in a cool dry place away from incompatible materials. Keep container tightly closed when not in use. Workers should wash promptly when skin becomes wet. Work clothing should be changed daily if there is any possibility that the clothing may be contaminated. Remove clothing promptly if it is non-impervious clothing that becomes wet. The following equipment should be available: Eyewash. 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 022-0078	NA = NOT AVAILABLE	DATE OF ISSUE 04-28-93	SUPERSEDES Any previous MSDS	SIGNED 
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