

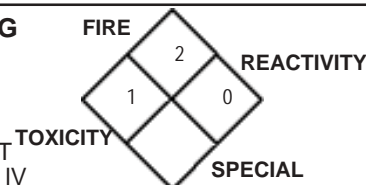


**KLEENCO**<sup>®</sup>  
FOR QUALITY, VALUE AND PERFORMANCE

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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 <b>CITRAQUIK HDD</b>	DATE ISSUED	04-28-93	CODE 003-0260	DOT HAZARD Combustible NA-1993
	PREPARED BY	Dale R. Silbaugh		
FORMULA Proprietary	CHEMICAL NAMES AND OR SYNONYMS Compound Cleaning Liquid			

### I - COMPOSITIONAL INFORMATION/SARA III INFORMATION

INGREDIENTS	CAS NUMBER	OCCUPATION EXPOSURE LIMITS			VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER		
Isopropanol	67-63-0	400 PPM	400 PPM	500 PPM	33.0 20°C.	

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 Viscous, opaque liquid, sweet smelling			
MELTING POINT Not Applicable	BOILING POINT 181° to 482°F.	COATING V.O.C. Not Applicable	EVAPORATION RATE Slower than ether
SOLUBILITY IN WATER Miscible	SPECIFIC GRAVITY (Water = 1) 0.9	VAPOR DENSITY Heavier than air	

### III - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT 115°F. (TCC)	AUTO IGNITION TEMPERATURE Not Available	LOWER EXPLOSION LIMIT (%) 0.7	UPPER EXPLOSION LIMIT (%) 7.0
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#### EXTINGUISHING MEDIA

FOAM     CO<sub>2</sub>     DRY CHEMICAL     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** Combustible liquid. Keep away from heat, sparks, and open flame.

### IV - HEALTH HAZARD INFORMATION

THRESHOLD LIMIT VALUE Not Established	ROUTE(s) OF ENTRY:	<input checked="" type="checkbox"/> INHALATION See Health Hazards	<input checked="" type="checkbox"/> SKIN See Health Hazards	<input checked="" type="checkbox"/> INGESTION See Health Hazards
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**HEALTH HAZARDS (Acute and Chronic)** CHRONIC EFFECTS OF EXPOSURE: None Known. \*See Section IX.

**CARCINOGENICITY:** Not considered to be a carcinogen     NTP     IARC Monographs     OSHA Regulated

**SIGNS AND SYMPTOMS OF EXPOSURE** 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."

**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, wash the contaminated skin with soap and water. 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 None	
HAZARDOUS DECOMPOSITION PRODUCTS Smoke may be acrid and fumes irritating. Burning generates CO, CO2, and smoke.			
HAZARDOUS POLYMERIZATION	<input type="checkbox"/> MAY OCCUR	<input checked="" type="checkbox"/> WILL NOT OCCUR	CONDITIONS TO AVOID Excessive heat.
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

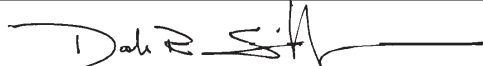
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Keep out of reach of children. Store in a cool dry place away from incompatible materials. Keep container tightly closed when not in use. Workers should promptly wash with soap when skin becomes contaminated. The following equipment should be available: 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

*HEALTH HAZARDS for Isopropanol: ACUTE HEALTH EFFECTS: INHALATION - Vapors and mists irritate the nose and throat. Inhalation of higher concentrations may cause headaches, vomiting, and coma. Inhalation of very high concentrations or prolonged exposure may cause unconsciousness or death. EYE CONTACT: Vapors will irritate the eyes. Liquid and mists can severely irritate or damage the eyes and cause corneal burns. SKIN CONTACT: Brief contact may dry the skin, or cause burning or stinging sensation. Prolonged or repeated contact may irritate the skin, causing dermatitis. SWALLOWED: Swallowing large quantities causes headaches, nausea, vomiting, stomach cramps and diarrhea, and perhaps unconsciousness, or death. CHRONIC EFFECTS OF EXPOSURE: Prolonged or repeated exposure to high concentrations can produce severe or fatal CNS depression. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Persons with pre-existing skin disorders, eye problems, or impaired respiratory function may be more susceptible to the effects of this substance.	
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## 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.
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PRODUCT CODE 003-0260	NA = NOT AVAILABLE 04-28-93	DATE OF ISSUE	SUPERSEDES Any previous MSDS	SIGNED 
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