

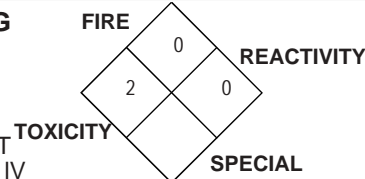


**KLEENCO**<sup>®</sup>  
FOR QUALITY, VALUE AND PERFORMANCE

KLEENCO PRODUCTS, INC.  
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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 <b>SAF-KLEEN</b>	DATE ISSUED 06-01-93	CODE 004-0460	DOT HAZARD Not Regulated
	PREPARED BY Dale R. Silbaugh		
FORMULA Proprietary	CHEMICAL NAMES AND OR SYNONYMS Powdered Cleaning Compound		

## I - COMPOSITIONAL INFORMATION/SARA III INFORMATION

INGREDIENTS	CAS NUMBER	OCCUPATION EXPOSURE LIMITS			VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER		
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 Free flowing, dry white/yellow powder			
MELTING POINT Not Applicable	BOILING POINT Not Applicable	COATING V.O.C. Not Applicable	EVAPORATION RATE Slower than ether
SOLUBILITY IN WATER Complete	SPECIFIC GRAVITY (Water = 1) .862	VAPOR DENSITY Not Applicable	

## III - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT Not Applicable	AUTO IGNITION TEMPERATURE Not Available	LOWER EXPLOSION LIMIT (%) Not Applicable	UPPER EXPLOSION LIMIT (%) Not Applicable
EXTINGUISHING MEDIA <input checked="" type="checkbox"/> FOAM <input checked="" type="checkbox"/> CO <sub>2</sub> <input checked="" type="checkbox"/> DRY CHEMICAL <input checked="" type="checkbox"/> WATER SPRAY <input type="checkbox"/> 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 None known			

## 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
HEALTH HAZARDS (Acute and Chronic) CHRONIC EFFECTS OF EXPOSURE: Repeated exposure may lead to irritation and/or sensitivity of the skin. OTHER EFFECTS OF OVEREXPOSURE: Concentrated solutions in contact with skin and eyes may cause chemical burns. *See Section IX.			
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 INHALATION: May be irritating to the nose, throat and respiratory tract. EYE CONTACT: Causes eye irritation. SKIN CONTACT: May cause skin irritation, seen as redness and swelling. In presence of moisture or sweat, may cause more severe irritation, including burns, following prolonged contact. SKIN ABSORPTION: Skin absorption through intact skin is likely to be negligible. SWALLOWING: May cause burns of the mouth, throat, esophagus and stomach. May cause nausea, vomiting, and diarrhea if large quantities are ingested.			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Skin irritation may be aggravated in persons with existing skin lesions. Breathing of dust may aggravate acute or chronic asthma and other chronic pulmonary disease.			
EMERGENCY AND FIRST AID PROCEDURES EYES: If this chemical contacts the eyes, immediately wash the eyes with large amounts of water and continue flushing for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with this chemical. SKIN: If this chemical contacts the skin, flush the contaminated skin with water promptly. If this chemical penetrates the clothing, immediately remove the clothing and flush the skin with water promptly. 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. If breathing has stopped, perform mouth-to-mouth resuscitation. Keep the affected person warm and at rest. Get medical attention as soon as possible. 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 Carbon dioxide is evolved at very high temperatures (1000°C, 1832°F.) or when mixed with acids.			
HAZARDOUS POLYMERIZATION	<input type="checkbox"/> MAY OCCUR	<input type="checkbox"/> WILL NOT OCCUR	CONDITIONS TO AVOID X Hygroscopic; protect from moisture. Remixing of separated acid and sodium carbon-solutions could cause CO2 evolution and severe splattering.
INCOMPATIBILITY (Materials to avoid) Reacts with strong acids. Can react violently with A1, P205, F2, Li and 2,4,6-trinitrotoluene (Ref. 1). This material upon contact with certain food products or their residues which contain reducing sugars, may react to form deadly carbon monoxide gas.			

## 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	Any dust respirator.		
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

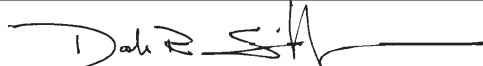
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE		Keep out of reach of children. Store in a cool dry place away from incompatible materials. Keep container tightly closed when not in use. Workers should wash immediately when skin becomes contaminated and at the end of each work shift. The following equipment 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 Sodium Metasilicate: INHALATION: Dusts are extremely corrosive to the entire respiratory tract. Breathing dust can destroy the mucous membranes and lungs and can cause chemical pneumonitis. EYE CONTACT: Dusts are extremely corrosive to the eyes. Brief contact causes severe eye damage and prolonged contact causes permanent eye injury which may be followed by blindness. SKIN CONTACT: Prolonged or repeated contact with the dust may cause severe burns. Prolonged exposure may lead to skin ulceration and ultimate scarring. SWALLOWING: Dusts or solids are extremely corrosive to the mouth and throat. Swallowing dusts or solids causes severe and rapid burning of the mouth, throat, and digestive tract accompanied by severe pain, vomiting and collapse. CHRONIC EFFECTS OF EXPOSURE: May result in areas of destruction of skin tissue or primary irritant dermatitis. Similarly, inhalation of dusts or mists may cause varying degrees of damage to the affected tissues and also increasing susceptibility to respiratory illness. Prolonged or repeated overexposure may result in kidney damage. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None reported.			
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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	NA = NOT AVAILABLE	DATE OF ISSUE	SUPERSEDES	SIGNED
004-0460		06-01-93	Any previous MSDS	

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