



MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

PRODUCT NAME: KLEEN BRITE
PART #: KB1GNC

(HMIS RATINGS)
HEALTH: 3
FIRE: 0
REACTIVITY: 1

PRODUCT INFORMATION (800) 262-0012	MEDICAL EMERGENCY (856) 455-4555
TRANSPORTATION EMERGENCY CHEMTREC (800) 424-9300	DISTRIBUTOR / MANUFACTURER NATIONAL REFRIGERANTS, INC. 661 KENYON AVE. ROSENHAYN, NJ

HAZARDOUS INGREDIENTS

	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% of Range</u>
SULFURIC ACID 66 deg. BE	7664-93-9	1 mg/m	1mg/m	>10
HYDROFLUORIC ACID 70%	7664-39-3	NE	3 PPM	<12

HAZARDS IDENTIFICATIONS

ROUTE (S) OF ENTRY: EYES YES SKIN YES INGESTION YES INHALATION YES

EFFECTS OF OVER EXPOSURE: VERY CORROSIVE TO SKIN & EYES.

INHALATION: MISTS EXTREMELY CORROSIVE TO NOSE AND THROAT. PAINFUL & BURNING;
CHRONIC EFFECTS RESPIRATORY INFECTIONS, EMPHYSEMA.

SKIN CONTACT/ABSORPTION: CAUSES BURNING AND IRRITATION. CORROSIVE TO SKIN.
EXPOSURE MAY NOT BE IMMEDIATELY APPARENT.

INGESTION: CAUSES DESTRUCTION TO TISSUES. CORROSIVE.

EYES: CORROSIVE – SEVERE PAIN. BRIEF CONTACT CAN CAUSE IRREVERSIBLE DAMAGE.
CHRONIC EFFECTS CONJUNCTIVITIS.

CARCINOGENITY: NO

NTP? NOT LISTED IARC ? NOT LISTED OSHA REGULATED? See Hazardous Ingredients Section
for Exposure Limits.

FIRST AID MEASURES

INHALATION: Remove to fresh air. SEEK IMMEDIATE MEDICAL ATTENTION.

EYE CONTACT: Hold eye lids apart and flood eyes with running water for at least 15 minutes. A 1% calcium gluconate solution should be used to wash eyes for 10-15 minutes and then instilled every 2-3 hours. A physician, or preferably an eye specialist should be called immediately.

SKIN CONTACT: Painful detection may be delayed. If suspected contact, treat as contact. Wash effected area of skin with copious amounts of water. A calcium gluconate gel (2.5%) or a 1% zephrine chloride wash should be rubbed in until pain has subsided. SEEK IMMEDIATE MEDICAL HELP.

INGESTION: Drink large amounts of water then swallow milk or 2oz. of milk of magnesia. DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION. CALL POISON CONTROL CENTER.



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FIRE FIGHTING MEASURES

FLAMMABILITY as per CPSC FLAME EXTENTION TEST: **FLASH POINT:** NONE
SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APPARATUS. FULL COVERAGE IMPERVIOUS GEAR.
UNUSUAL FIRE & EXPLOSION HAZARDS: EXTINGUISH ALL NEARBY SOURCES OF IGNITION; FLAMMABLE HYDROGEN GAS LIBERATED FROM CONTACT WITH SOME METALS.

ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:
ABSORB SPILL WITH VERMICULITE - SHOVEL INTO CLEAN CONTAINER THAT IS IMPERVIOUS TO THIS MATERIAL.

HANDLING AND STORAGE

HANDLING: KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE AWAY FROM OTHER CHEMICALS.

EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION REQUIREMENTS: LOCAL EXHAUST ADEQUATE.

PERSONAL PROTECTION:

RESPIRATORY: NEED TO PROTECT FROM EXPOSURE TO MISTS AND FUMES. USE APPROVED NIOSH HIGH EFFICIENCY RESPIRATOR THAT IS SUITED FOR FLUORIDE CONTAINING MATERIALS.

EYE: CHEMICAL GOGGLES RECOMMENDED.S

SKIN: WEAR IMPERVIOUS BOOTS, ACID RESISTANT CLOTHING.

GLOVES: RECOMMENDED - CHEMICAL RESISTANT RUBBER/PLASTIC.

OTHER: DO NOT EAT, DRINK, OR SMOKE IN WORK AREA. WASH HANDS BEFORE EATING.

PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (mm Hg): NE

VAPOR DENSITY (AIR=1): NE

SPECIFIC GRAVITY (H₂O =1): 1.09

EVAPORATION RATE (H₂O=1): NE

SOLUBILITY IN WATER: COMPLETE

MELTING POINT: NA

Ph: 1.0

BOILING POINT: 212 DEG. F

APPEARANCE AND ODOR: CLEAR PINK TO RED LIQUID, PUNGENT ODOR

STABILITY AND REACTIVITY

STABILITY: STABLE

MATERIALS TO AVOID: ALKALIS, ALKALINE PRODUCTS, AMMONIA, CHLORINE BLEACH, OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS: EXCESSIVE HEAT AND CONTAMINATION OF ANY KIND MAY LIBERATE HYDROGEN FLUORIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR



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DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS.

TRANSPORTATION INFORMATION

DOMESTIC--OTHER THAN AIR (DOT)

<u>PROPER SHIPPING NAME:</u>	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrofluoric Acid, Sulfuric Acid)
<u>HAZARD CLASS:</u>	8
<u>UN NUMBER:</u>	UN3264
<u>PACKING GROUP:</u>	PG II

REGULATORY INFORMATION

- 302 (EXTREMELY HAZARDOUS SUBSTANCES): REPORTING NOT REQUIRED
- 304/CERCLA (SPILLS NOTIFICATION): NOT REQUIRED
- 311 (COMMUNITY RIGHT-TO-KNOW): REPORTING REQUIRED
- 312 (RTK INVENTORY DATA): REPORTING REQUIRED
- 313 (EMISSION AND RELEASES): REPORTING NOT REQUIRED

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DATE OF LATEST REVISION/REVIEW:	10/09
PERSON RESPONSIBLE FOR MSDS:	Ray Madariaga