



## MATERIAL SAFETY DATA SHEET

### PRODUCT IDENTIFICATION

**PRODUCT NAME: KLEEN BRITE**  
**PART #: KB1GNC**

(HMIS RATINGS)

HEALTH: 3  
FIRE: 0  
REACTIVITY: 1

<b>PRODUCT INFORMATION</b> (800) 262-0012	<b>MEDICAL EMERGENCY</b> (856) 455-4555
<b>TRANSPORTATION EMERGENCY</b> CHEMTREC (800) 424-9300	<b>DISTRIBUTOR / MANUFACTURER</b> 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.



## 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

**SPECIFIC GRAVITY (H<sub>2</sub>O =1):** 1.09

**SOLUBILITY IN WATER:** COMPLETE

**Ph:** 1.0

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

**VAPOR DENSITY (AIR=1):** NE

**EVAPORATION RATE (H<sub>2</sub>O=1):** NE

**MELTING POINT:** NA

**BOILING POINT:** 212 DEG. F



**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

**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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<b>DATE OF LATEST REVISION/REVIEW:</b>	10/09
<b>PERSON RESPONSIBLE FOR MSDS:</b>	Ray Madariaga