

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

PRODUCT NAME: KLEEN BRITE PART #: KB1GN, KB2GN, KB55GN

(NFPA RATINGS)

HEALTH: FIRE: 0

REACTIVITY:

HMIS PROTECTIVE EQUIPMENT: X See your supervisor

PRODUCT INFORMATION

MEDICAL EMERGENCY

(800) 262-0012

(856) 455-4555

TRANSPORTATION EMERGENCY CHEMTREC (800) 424-9300

DISTRIBUTOR / MANUFACTURER NATIONAL REFRIGERANTS. INC.

661 KENYON AVE. ROSENHAYN, NJ

HAZARDOUS INGREDIENTS

OSHA HAZARDOUS COMPONENTS (29CFR 1910.1200) **EXPOSURE LIMITS: 8 HR. TWA**

CAS#

OSHA PEL

ACGIH TLV

PHOSPHORIC ACID

7664-38-2

1 mg/m3 3mg/m3

STEL

1 mg/m3STEL 3mg/m3

HYDROFLUORIC ACID

7664-39-3

3 ppm (F)

STEL 6 ppm (F)

CL 3 ppm (F)

HAZARDS IDENTIFICATIONS

EMERGENCY OVERVIEW: DANGER! CORROSIVE TO ALL BODY TISSUES. AVOID CONTACT WITH SKIN OR EYES. HARMFUL IF INHALED OR SWALLOWED.

POTENTIAL HEALTH EFFECTS:

INHALATION: INHALATION OF VAPOR OR MIST IS CORROSIVE TO

RESPIRATORY TRACT. SYMPTOMS INCLUDE COUGHING, WHEEZING, LARYNGITIS, SHORTNESS

OF BREATH, HEADACHE, NAUSEA AND VOMITING.

EYE CONTACT: LIQUID OR VAPORS ARE CORROSIVE TO EYES. IMMEDIATE

IRRITATION FOLLOWED BY DESTRUCTION OF TISSUE.

SKIN CONTACT: THIS MATERIAL IS CORROSIVE TO ALL BODY TISSUES.

FULL EXTENT OF DAMAGE MAY NOT BE APPARENT FOR 12-24 HOURS AFTER EXPOSURE. SEVERE

BURNS ARE SLOW HEALING. GANGRENE MAY FOLLOW DAMAGE.

INGESTION: CORROSIVE, MODERATELY TOXIC, CAUSES NAUSEA, VOMITING, LOSS OF CONSCIOUSNESS.

CHRONIC EFFECTS: DAMAGE TO KIDNEYS AND LIVER (PHOSPHORIC ACID).

CHANGES IN BONES OR JOINTS (HYDROFLUORIC ACID).

LISTED IN NTP? NO NO IARC?NO **CARCINOGENITY:** OSHA REGULATED? NO



FIRST AID MEASURES

Remove victim to fresh air and if needed immediately begin artificial respiration. Give oxygen if INHALATION:

breathing is labored. Get emergency medical help. Contact a physician immediately.

Flush eyes with water for 15 minutes. Get medical attention. EYE CONTACT:

Flush with water or soap and water for 15 minutes or until all traces have been removed. Seek SKIN CONTACT:

medical attention if symptoms develop and persist.

DO NOT INDUCE VOMITING. Rinse mouth out with water. Get immediate medical attention. INGESTION:

FIRE FIGHTING MEASURES

FLASH POINT (F): NONE

FLAMMABILITY LIMIT: LOWER N/A UPPER N/A

AUTOIGNITION TEMPERATURE: N/A

GENERAL HAZARD: TOXIC FUMES PRODUCED IN FIRE.

FIRE FIGHTING INSTRUCTIONS: APPROACH FIRE FROM UPWIND SIDE. AVOID BREATHING SMOKE, FUMES, MIST, OR VAPORS ON THE DOWNWIND SIDE. FIREFIGHTERS WEAR PROTECTIVE

CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.

EXTINGUISHING MEDIA: DRY POWDER, CARBON DIOXIDE (CO2), WATER FOG OR SPRAY. HAZARDOUS COMBUSTION PRODUCTS: SMOKE, IRRITATING VAPORS, TOXIC FUMES OF POX,

AND CORROSIVE F FUMES, CO, CO2.

ACCIDENTAL RELEASE MEASURES

LAND SPILL:

EMERGENCY RESPONSE COORDINATOR MUST HAVE MANDATED TRAINING.

ELIMINATE ALL IGNITION SOURCES. SMALL SPILLS: PICK UP WITH ABSORBENT MATERIALS AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL OR REUSE. LARGE SPILLS: EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS.

WATER SPILL: NOTIFY PROPER AUTHORITIES.

CLEAN-UP LEAKS/SPILLS IMMEDIATELY TO PREVENT SOIL OR WATER CONTAMINATION.

HANDLING AND STORAGE

HANDLING: AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. AFTER HANDLING THIS PRODUCT, WASH HANDS BEFORE EATING, DRINKING OR SMOKING. IF CONTACT OCCURS, REMOVE CONTAMINATED CLOTHING. IF NEEDED, TAKE FIRST AID ACTION SHOWN ABOVE. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

STORAGE: STORE AWAY FROM FOODSTUFFS, ALKALINE MATERIALS.



EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: LOCAL EXHAUST VENTILATION RECOMMENDED. **PERSONAL PROTECTION:** IF TLV IS EXCEEDED WEAR NIOSH APPROVED RESPIRATOR.

USE HEAVY RUBBER TYPE GLOVES, FULL FACE SHIELD AND BOOTS, APRONS, DRENCH SHOWERS, EYEWASH AS NEEDED FOR PROTECTION AGAINST SPILLS AND/OR SPLASHES.

PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: ND VAPOR DENSITY (AIR=1): >1 SPECIFIC GRAVITY (H2O=1): 1.15 EVAPORATION RATE: (BuAc =1): >1

SOLUBILITY IN WATER: COMPLETE **VOC:** 0%

pH <2.0 FREEZING POINT: ND

BOILING POINT: 212 DEG. F

APPEARANCE AND ODOR: PINK LIQUID, PUNGENT ODOR

STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: HIGH TEMPERATURES

MATERIALS TO AVOID: ALKALINE MATERIALS, MAY REACT WITH METALS TO PRODUCE

HYDROGEN GAS

HAZARDOUS DECOMPOSITION PRODUCTS: CORROSIVE F FUMES, TOXIC POX FUMES, FROM

COMBUSTION-SMOKE, CO, CO2

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

TOXICOLOGICAL INFORMATION

PHOSPHORIC ACID LDLo: 220 mg/kg (unr-man)

LD50: 1530 mg/kg (oral-rat)

LD50: 2740 mg/kg (skin-rat)

HYDROFLUORIC ACID LCLo: 50ppm / 30 M (inh-human)

LC50: 966 ppm / 1 hr (inh-rat)

TCLo: 100 mg/m3 (inh-human) NOSE, EYE, PUL

ECOLOGICAL INFORMATION

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.

PHOSPHORIC ACID 138 ppm /24 HR / MOSQUITO FISH / TLm / FRESHWATER

HYDROFLUORIC ACID 60 ppm /FISH/ LETHAL / FRESHWATER

DISPOSAL CONSIDERATIONS

DISPOSE AS HAZARDOUS WASTE. CLASSIFICATION AND DOCUMENTATION IS REQUIRED BEFORE DISPOSAL. FOLLOW ALL FEDERAL, STATE AND LOCAL REGULATIONS.



TRANSPORTATION INFORMATION

DOMESTIC--OTHER THAN AIR (DOT)

<u>PROPER SHIPPING NAME</u>:) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(HYDROFLUORIC ACID, PHOSPHORIC ACID)

HAZARD CLASS: 8

UN NUMBER: UN3264

PROPER SHIPPING DESCRIPTION: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(HYDROFLUORIC ACID, PHOSPHORIC ACID)

8, UN3264, PGII

REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT): COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT): REPORTABLE QUANTITY IS 65 GALLONS (HYDROFLUORIC ACID). CONTACT LOCAL AUTHORITIES FOR OTHER REPORTING REQUIREMENTS.

SARA TITLE 111 (SUPERFUND AMENDMENTS REAUTHORIZATION ACT):

SECTION 302 THRESHOLD PLANNING QUANTITY IS 65 GALLONS (HYDROFLUORIC ACID)

SECTION 313 HYDROGEN FLUORIDE (CAS# 7664-39-3) 8-15%

PHOSPHORIC ACID (CAS# 7664-38-2) 5-10%

CALIFORNIA PROPOSITION 65: NOT LISTED.

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DATE OF LATEST REVISION/REVIEW: 10/06

PERSON RESPONSIBLE FOR MSDS:

Ray Madariaga