



# MATERIAL SAFETY DATA SHEET

## PRODUCT IDENTIFICATION

**PRODUCT NAME: KLEEN FOAM**  
**PART #: KF1GNC**

(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>
SODIUM HYDROXIDE 50%	1310-73-2	2MG/M <sub>3</sub>	2MG/M <sub>3</sub>	<60
POTASSIUM HYDROXIDE 45%	1310-58-3	NE	2MG/M <sub>3</sub>	<20

## HAZARDS IDENTIFICATIONS

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

**EFFECTS OF OVER EXPOSURE:** VERY CORROSIVE TO SKIN, EYES & MUCOUS MEMBRANES;  
CAUSES DEEP IMMEDIATE BURNS, MAY CAUSE BLINDNESS.

**INHALATION:** IRRITATION OF NASAL PASSAGES.

**SKIN CONTACT/ABSORPTION:** SEVERE BURNS TO EXPOSED SKIN.

**INGESTION:** NAUSEA, CORROSIVE TO DIGESTIVE TRACT.

**CARCINOGENITY:** NO

NTP? NOT LISTED IARC ? NOT LISTED

OSHA REGULATED? SEE HAZARDOUS INGREDIENTS FOR EXPOSURE.

## FIRST AID MEASURES

**INHALATION:** Move to fresh air. IF BREATHING STOPS, START ARTIFICIAL RESPIRATION, GET MEDICAL IMMEDIATE ATTENTION.

**EYE CONTACT:** Wash with plenty of water for 15 min. GET IMMEDIATE MEDICAL ATTENTION.

**SKIN CONTACT:** Neutralize with very dilute vinegar solution, wash with soap and water, apply skin cream.  
For large burns - GET IMMEDIATE MEDICAL ATTENTION

**INGESTION:** Drink water. DO NOT induce vomiting. SEEK IMMEDIATE MEDICAL ATTENTION.  
NOTE: VOMITTING MAY CAUSE ASPIRATION OF MATERIAL TO LUNGS CAUSING PULMONARY EDEMA.

## FIRE FIGHTING MEASURES

**FLAMMABILITY** as per CPSC FLAME EXTENTION TEST: **FLASH POINT:** NOT COMBUSTIBLE  
**UNUSUAL FIRE & EXPLOSION HAZARDS:** AVOID MIXING WITH ACIDS AND SOFT METALS.



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## ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:

PICKUP WITH ABSORBENT MATERIAL, PLACE IN LEAK PROOF CONTAINERS FOR PROPER DISPOSAL.

## HANDLING AND STORAGE

KEEP CONTAINER CLOSED WHEN NOT IN USE.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION REQUIREMENTS:** IF VAPORS ARE DETECTED, VENTILATE WORK AREA USING EXHAUST FANS. MAKE SURE VAPORS ARE VENTED AWAY FROM WORKERS.

### PERSONAL PROTECTION:

**RESPIRATORY:** KEEP FACE AWAY FROM SPRAY MIST. DO NOT BREATHE VAPORS.

**EYE:** USE TIGHT FITTING, SPLASH PROOF SAFETY GOGGLES. CONTACT LENSES SHOULD NOT BE WORN WHEN HANDLING THIS MATERIAL.

**SKIN:** WEAR IMPERVIOUS CLOTHING AND FOOTWEAR TO PREVENT ALL SKIN CONTACT. USE OF FACESHIELD IS RECOMMENDED.

**GLOVES:** CHEMICAL RESISTANT RUBBER/NEOPRENE.

**OTHER:** AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. WASH HANDS THOROUGHLY AFTER HANDLING.

## PHYSICAL AND CHEMICAL PROPERTIES

**VAPOR PRESSURE (mm Hg):** ND

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

**SPECIFIC GRAVITY (H<sub>2</sub>O =1):** 1.25

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

**SOLUBILITY IN WATER:** COMPLETE

**MELTING POINT:** NA

**Ph:** 12-14.0 @ 20 deg. C

**BOILING POINT:** 212 deg. F

**APPEARANCE AND ODOR:** CLEAR BROWN LIQUID, CHEMICAL ODOR

## STABILITY AND REACTIVITY

**STABILITY:** STABLE

**MATERIALS TO AVOID:** ACIDS AND ACID PRODUCTS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** HEAT

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

## DISPOSAL CONSIDERATIONS

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

## TRANSPORTATION INFORMATION

**DOT:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, POTASSIUM HYDROXIDE) 8, UN3266, PGII



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## REGULATORY INFORMATION

- 302 (EXTREMELY HAZARDOUS SUBSTANCES): REPORTING NOT REQUIRED
- 304/CERCLA (SPILLS NOTIFICATION): REPORTING REQUIRED FOR SPILLS ABOVE THE RQ. SODIUM HYDROXIDE AND POTASSIUM HYDROXIDE ARE LISTED BY CERCLA. SPILLS IN EXCESS OF 1000 LBS. EACH MUST BE REPORTED.
- 311 (COMMUNITY RIGHT-TO-KNOW): REPORTING REQUIRED, ACUTE AND CHRONIC HEALTH HAZARD, CORROSIVE, TOXIC.
- 312 (RTK INVENTORY DATA): REPORTING REQUIRED FOR INVENTORIES ABOVE TPQ.
- 313 (EMISSION AND RELEASES): REPORTING NOT REQUIRED.

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