

# MATERIAL SAFETY DATA SHEET

# **PRODUCT IDENTIFICATION**

PRODUCT NAME: ALKA KLEEN PART #: AN1GN, AN2GN, AN55GN

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

HMIS PROTECTIVE EQUIPMENT: X See your supervisor

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**

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

<u>CAS #</u> <u>OSHA PEL</u> <u>ACGIH TLV</u>

SODIUM HYDROXIDE 1310-73-2 CL 2mg/m3 CL 2mg/m3

#### 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.

EYE CONTACT: LIQUID OR VAPORS ARE CORROSIVE TO EYES SKIN CONTACT: LIQUID OR VAPORS ARE CORROSIVE TO SKIN

INGESTION: TOXIC. MAY CAUSE SEVERE DAMAGE, PERFORATION AND SCARRING OF

GASTROINTESTINAL TRACT.

**CHRONIC EFFECTS:** CHEMICAL PNEUMONITIS.

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

#### FIRST AID MEASURES

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

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

**EYE CONTACT:** Flush eyes with water for 15 minutes. Get medical attention if symptoms develop and persist. **SKIN CONTACT:** Flush with water or soap and water for 15 minutes or until all traces have been removed. Seek

medical attention if symptoms develop and persist.

**INGESTION:** DO NOT INDUCE VOMITING. Get immediate medical attention.



# MATERIAL SAFETY DATA SHEET

#### FIRE FIGHTING MEASURES

FLASH POINT (F): NONE

FLAMMABILITY LIMIT: LOWER N/A UPPER N/A

**AUTOIGNITION TEMPERATURE: N/A** 

GENERAL HAZARD: TOXIC FUMES OF Na2O, SOx

**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, TOXIC FUMES OF Na2O, CO, CO2, SOx.

## ACCIDENTAL RELEASE MEASURES

#### LAND SPILL:

FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER, AT LEAST 10 PARTS WATER TO 1 PART CLEANER. LARGE SPILLS: PICK UP WITH ABSORBENT MEDIA, VACUUM TRUCK OR PUMP. PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL OR SALVAGE. NOTIFY PROPER LOCAL, STATE AND FEDERAL AUTHORITIES.

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 STRONG ACID, ACIDIC MATERIALS.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** LOCAL EXHAUST RECOMMENDED.

**PERSONAL PROTECTION:** WEAR CHEMICAL GLOVES, IMPERVIOUS GLOVES AND FULL FACE SHEILD. USE BOOTS, APRONS, DRENCH SHOWERS AND EYEWASH AS NEEDED FOR PROTECTION AGAINST SPILLS AND/OR SPLASHES.

## PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: ND VAPOR DENSITY (AIR=1): >1

**SPECIFIC GRAVITY:** 1.2 **EVAPORATION RATE:** (N-BUTYL ACETATE=1): <1

**SOLUBILITY IN WATER: COMPLETE VOC (G/L):** NA

**Ph** 13.5 – 14.0 **FREEZING POINT:** ND

**BOILING POINT: 212 DEG. F** 

APPEARANCE AND ODOR: PURPLE FOAM, BLAND ODOR

## STABILITY AND REACTIVITY

**STABILITY: STABLE** 

**CONDITIONS TO AVOID: HIGH TEMPERATURES** 

MATERIALS TO AVOID: STRONG ACIDS, ACIDIC MATERIALS

HAZARDOUS DECOMPOSITION PRODUCTS: FROM COMBUSTION: SMOKE, CARBON MONOXIDE,

CARBON DIOXIDE, OXIDES OF SULFUR, Na2O.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR



# MATERIAL SAFETY DATA SHEET

#### TOXICOLOGICAL INFORMATION

SODIUM HYDROXIDE LDLo: 500 mg/kg (oral-rat)

50 g/24 hr SEV (eye-rabbit) 500mg/24 hr SEV (skin-rabbit)

# **ECOLOGICAL INFORMATION**

PHOSPHORIC ACID 125 ppm /96 HR / MOSQUITO FISH / TLm / FRESHWATER

180 ppm /23 HR / OYSTERS / LETHAL / SALTWATER

## 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)

UN NUMBER: UN1824

PROPER SHIPPING NAME:) SODIUM HYDROXIDE SOLUTION

HAZARD CLASS: 8

DOT Emergency Guide#: 154 Reportable Quantity (RQ): NA

International: UN 1824, Sodium hydroxide solution, 8, 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): THE REPORTABLE QUANTITY IS 1000 LBS. (SODIUM HYDROXIDE). CONTACT LOCAL AUTHORITIES FOR OTHER REPORTING REQUIREMENTS.

SARA TITLE III (SUPERFUND AMENDMENTS REAUTHORIZATION ACT): NO COMPONENTS ARE LISTED.

CALIFORNIA PROPOSITION 65: NOT LISTED.

\*

National Refrigerants, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other methods of use of the product and of the information referred to herein are beyond the control of National Refrigerants. National Refrigerants expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

**DATE OF LATEST REVISION/REVIEW:** 12/2012 **PERSON RESPONSIBLE FOR MSDS:** Matt Callahan