

MAY 04 1992

(000000-000000-KNDFF -K438 ) DATE OF ISSUE 11/14/91 SUPERSEDES 11/13/91

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS N/A TRADE NAME & SYNONYMS KEM 7-11  
 CHEMICAL FAMILY DISINFECTANT CREME CLEANER FORMULA X<--MIXTURE  
 MANUFACTURERS NAME KEM MFG. DIV. OF SYSTEMS GENERAL  
 ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE) P. O. BOX 152170 IRVING, TX 75015  
 PREPARED BY: M DICKSON/CHEMIST PRODUCT CODE NUMBER K438 EMERGENCY TELEPHONE NUMBER 214-438-1381

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV	PEL	CAS#
AMMONIUM HYDROXIDE	CORROSIV	25PPM	50PPM(T)	7664-41-7
SILICONE DIOXIDE	CARC	1MG/M3	1MG/M3	14808-60-7

SECTION III - PHYSICAL DATA

BOILING PT. (FAHRENHEIT)	212	SPEC GRAVITY (H2O=1)	1.16-1.2
VAPOR PRESSURE (MM HG)	N/A	COLOR	GREEN

KEM 7-11

(CONTINUED)

SECTION III - PHYSICAL DATA

PAGE : 02

VAPOR DENSITY (AIR=1)	N/A	ODOR	ANISE-AMMONIA
PH @ 100%	N/A	CLARITY	OPAQUE EMULSION
PERCENT VOLATILE BY VOLUME (%)	58	EVAPORATION RATE (BU AC = 1)	0.10
SOLUBILITY IN WATER	COMPLETE		
VISCOSITY	NON-VISCOUS		

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL	UEL
NON-FLAMN/A		N/A	N/A
EXTINGUISHING MEDIA "ALCOHOL" X<--FOAM	X<--CO2	DRY CHEMICAL	WATER SPRAY <--OTHER

SPECIAL FIRE FIGHTING PROCEDURES  
 WEAR NIOSH/MSHA APPROVED RESPIRATORY EQUIPMENT WHEN FIGHTING FIRES IN CONFINED AREAS TO PREVENT EXPOSURE TO ACRID SMOKE AND HAZARDOUS DECOMPOSITION PRODUCTS. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.

UNUSUAL FIRE & EXPLOSION HAZARDS  
 AMMONIUM HYDROXIDE FORMS AN EXPLOSIVE WITH MERCURY.

NFPA HAZARD RATING (0=INSIGNIFICANT; 1=SLIGHT; 2=MODERATE; 3=HIGH; 4=EXTREME):  
 2 <--HEALTH 0 <--FLAMMABILITY 0 <--REACTIVITY <--SPECIAL

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE :  
 NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.  
 EFFECTS OF OVEREXPOSURE

- ACUTE - (SHORT TERM EXPOSURE)  
 CONTACT TO THIS ALKALINE MIXTURE MAY RESULT IN IRRITATION TO MUCOUS MEMBRANES, EYES, AND SKIN. EYE SYMPTOMS RANGE FROM LACRIMATION TO CORNEAL ULCERATION AND POSSIBLE BLINDNESS. IRRITATING BY INHALATION AND BY MIST TO UPPER RESPIRATORY TRACT. ACCIDENTAL INGESTION MAY CAUSE NAUSEA DIARRHEA AND POSSIBLE PERFORATION OF INTESTINAL LINING.  
 - CHRONIC - (LONG TERM EXPOSURE)  
 PROLONGED CONTACT MAY RESULT IN BURNS OR BLISTER FORMATION TO

LOCALIZED VASCULAR DAMAGE SKIN OR MUCOUS MEMBRANES. EXPOSURE TO MIST MAY RESULT IN CHRONIC INFLAMMATION OF UPPER RESPIRATORY TRACT. INGESTION CAN CAUSE NAUSEA AND POSSIBLE PERFORATION OF INTESTINAL LINING. PROLONGED EYE CONTACT CAN LEAD TO ULCERATION AND POSSIBLE BLINDNESS.

PRIMARY ROUTE OF ENTRY: <-- INHALATION <-- INGESTION <-- ABSORPTION

## EMERGENCY &amp; FIRST AID PROCEDURES

INHALATION: REMOVE PERSON FROM AREA TO FRESH AIR. TREAT SYMPTOMATICALLY. TYPICAL USE OF THIS PRODUCT DOES NOT PRESENT AN INHALATION HAZARD.

## EYE CONTACT:

OBJECT IS TO SEEK MEDICAL ATTENTION IMMEDIATELY. IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS APART TO ENSURE FLUSHING OF THE ENTIRE EYE SURFACE. SEEK MEDICAL ATTENTION IMMEDIATELY.

## SKIN CONTACT:

WASH WITH PLENTY OF WATER. WASH CLOTHING BEFORE REUSE. IF ANY IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

## INGESTION:

IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. IF AVAILABLE GIVE SEVERAL GLASSES OF MILK. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION IMMEDIATELY.

## NOTES TO PHYSICIAN:

\* DUE TO LOW % OF AMMONIUM HYDROXIDE CORROSIVE EFFECTS SHOULD NOT BE EVIDENT BUT WILL ACT AS AN IRRITANT. THE PRIMARY ROUTE OF ENTRY IS THE SKIN AND CONDITIONS OF THE SKIN WILL BE EXACERBATED WHEN PROLONGED OR REPEATED EXPOSURE HAS OCCURRED.

## SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC	X<--YES <--NO	NTP	<--YES X<--NO	OSHA	<--YES X<--NO	ACGIH	<--YES X<--NO	OTHER	<--YES X<--NO

AMMONIUM HYDROXIDE  
IHL-HMN TCLC: 20 PPM 2.  
UNK-MAN LDLO: 132MG/KG 2.  
ORL-RAT LD50: 350MG/KG 2.

## SECTION VII - REACTIVITY DATA

STABILITY	X<--STABLE	<--UNSTABLE	CONDITIONS TO AVOID

ALKALI METALS

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG OXIDIZERS, HYPOCHLORITE BLEACHES

HAZARDOUS DECOMPOSITION PRODUCTS  
OXIDES OF CARBON AND NITROGEN

HAZARDOUS	WILL NOT X <--OCCUR	MAY <--OCCUR	CONDITIONS TO AVOID
POLYMERIZATION	N/A		

## SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
STOP LEAKS AND CONTAIN SPILL. USE APPROPRIATE PROTECTIVE EQUIPMENT.  
SMALL SPILL-FLUSH DOWN DRAIN IN ACCORDANCE WITH APPLICABLE REGULATIONS.  
LARGE SPILL-RECOVER FOR REUSE OR CONTAINERIZE FOR DISPOSAL. FLUSH TO SEWER  
DRAIN WITH LARGE VOLUMES OF WATER IN ACCORDANCE WITH APPLICABLE REGULATIONS.

WASTE DISPOSAL METHOD  
DISPOSE OF IN ACCORDANCE WITH STATE, FEDERAL, AND LOCAL REGULATIONS  
CONCERNING HEALTH POLLUTION. NORMAL PROCEDURE: SKIM OFF FLOATING OIL  
AND GREASE AND FLUSH DOWN DRAIN OR SEPARATE IN AUTOMATIC OIL/WATER  
SEPARATOR AND FLUSH DOWN DRAIN.

NEUTRALIZING AGENT  
MIX WITH A LARGE AMOUNT OF WATER AND SLOWLY ADD A SOLUTION OF DILUTE  
ACID.

## SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION  
GENERAL EXHAUST VENTILATION SUFFICIENT TO MAINTAIN WORKPLACE  
CONCENTRATIONS BELOW PERMISSIBLE EXPOSURE LIMITS.

RESPIRATORY PROTECTION  
TYPICAL USE DOES NOT REQUIRE RESPIRATORY PROTECTION. IN AN  
EMERGENCY THE FOLLOWING RESPIRATORS ARE RECOMMENDED:  
1DLH 500PPM GMS/SAF/SCBAF  
1DLH 500MG/M3 SAF/PD,PP,CF

PROTECTIVE GLOVES  
WEAR IMPERVIOUS GLOVES (SYNTHETIC, ELASTOMERS OR  
PVC) AND PROTECTIVE CLOTHING AS REQUIRED.

(CONTINUED)

SECTION IX - SPECIAL PROTECTION INFORMATION PAGE : 05

EYE PROTECTION  
 CHEMICAL GOGGLES SHOULD BE WORN DEPENDING UPON  
 SEVERITY OF EXPOSURE.

OTHER PROTECTION  
 SHOES OR BOOTS.

## SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE	INDOOR	HEATED	REFRIGERATED	OUTDOOR
120 F. <--MAX	X			X
32 F. <--MIN				

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING  
 STORE AT MODERATE TEMPERATURES.

OTHER PRECAUTIONS  
 KEEP OUT OF REACH OF CHILDREN.  
 READ ENTIRE LABEL BEFORE USING.

## SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME	C.A.S. NUMBER	UPPER % LIMIT
AMMONIUM HYDROXIDE	7664-41-7	UE

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF  
 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF  
 1986 AND 40 CFR PART 372.

IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT  
 FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE  
 JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS  
 MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND  
 LABELED FOR MAINTAINING MOTOR VEHICLES.

## SECTION XII - TRANSPORTATION \* (FOR FUTURE USE)

APPLICABLE REGULATIONS	<--TARIFF 6 D	<--IATA	<--MILITARY AIR (AFR 71-4)
<--49 CFR <--IMCO			

SHIPPING NAME

HAZARD CLASS

| ID NUMBER | REPORT QTY

KEM 7-11

(CONTINUED)

SECTION XII - TRANSPORTATION \* (FOR FUTURE USE)

PAGE : 06

LABELS

| LIMITED QTY

UNIT CONTAINER

DOT SPS CONTAINER

| NET EXPLOSIVE WT.

AEROSOL PROPELLANT(S)

## SECTION XIII - REFERENCES

1. THRESHOLD LIMIT VALUE FOR CHEMICAL SUBSTANCES IN THE WORK  
 ENVIRONMENT, 2ND EDITION, ACGIH, 1985.
2. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 6TH EDITION,  
 N. IRVING SAX.

N/A - NO APPLICABLE INFORMATION WAS FOUND.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED  
 ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY  
 IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA  
 OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

KEM MFG. DIV. OF SYSTEMS GENERAL ASSUMES NO RESPONSIBILITY  
 FOR PERSONAL INJURY OR PROPERTY DAMAGE CAUSED BY THE USE, STORAGE  
 OR DISPOSAL OF THE PRODUCT IN A MANNER NOT RECOMMENDED ON THE  
 PRODUCT LABEL. USERS ASSUME ALL RISKS ASSOCIATED WITH SUCH  
 UNRECOMMENDED USE, STORAGE, OR DISPOSAL OF THE PRODUCT.

\*\*\*\*

\*\*\*\*