(078877-0312 -L0051534-K097)

DATE OF ISSUE	SUPERSEDES
09/01/89	08/26/87

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS
N/A

TRADE NAME & SYNONYMS
SUPER FOAM 380

CHEMICAL FAMILY
BUTYL DETERGENT

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:	PRODUCT CODE NUMBER	EMERGENCY TELEPHONE NUMBER
RICHARD STOLLEY/T.S.CHEM.	K097	214-438-1381

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS AS THE PRODUCT MIXTURE HAS NOT BEEN TESTED AS A WHOLE.

CHEMICAL NAME (INGREDIENTS)	HAZARD	TLV*	PEL*	CAS#
SODIUM METASILICATE	SKIN IRR.	2MG/M3 1.	2MG/M3 1.	683-49-20
ETHYLENE GLYCOL MONOBUTYL ETHER	SKIN IRR.	25PPM	25PPM	111-76-2

SECTION III - PHYSICAL DATA

BOILING PT.(FAHRENHEIT)	212	SPEC GRAVITY (H20=1)	:1.035

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(CONTINUED) SECTION III - PHYSICAL DATA PAGE : 02

VAPOR PRESSURE (MM HG).	17	COLOR	YELLOW
VAPOR DENSITY (AIR=1)	0.6	ODOR	BUTYL
PH @ 100%	12.2	CLARITY	TRANSPARENT
PERCENT, VOLATILE BY VOLUME (%)	89	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	N/A

EXTINGUISHING MEDIA "ALCOHOL"
X<--FOAM X<--FOAM X<--CO2 DRY X<--CHEMICAL WATER X<--SPRAY <--OTHER

SPECIAL FIRE FIGHTING PROCEDURES
USE OF EXTINGUISHING MATERIAL DEPENDS UPON NATURE OF FIRE. PRODUCT IS NON-FLAMMABLE. WEAR NIOSH/MSHA APPROVED RESPIRATOR WHEN FIGHTING FIRES IN CONFINED AREAS TO PROTECT FROM ACRID SMOKE AND HAZARDOUS DECOMP.

UNUSUAL FIRE & EXPLOSION HAZARDS

NONE KNOWN

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

ACUTE EXPOSURE FROM THIS ALKALINE MIXTURE MAY RESULT IN REDDENING AT THE SKIN. MODERATE IRRITATION AND POSSIBLE DISCOMFORT. IRRITATING BY INHALATION AND BY MIST TO UPPER RESPIRATORY TRACT OR OTHER MUCOUS MEMBRANE AREAS. EYE CONTACT PRODUCES TEARING, IRRITATION AND DISCOMFORT.

ACCIDENTAL INGESTION MAY CAUSE NAUSEA, DIARRHEA AND IRRITATION OF INTESTINAL LINING.

- CHRONIC - (LONG TERM EXPOSURE)

LONG-TERM MISUSE RESULTING FROM AIRBORNE CONCENTRATIONS OF MIST OR SPRAY MAY CAUSE DAMAGE TO UPPER RESPIRATORY TRACT. CHRONIC EFFECTS MAY RESULT IN SUPERFICIAL DESTRUCTION OF SKIN TISSUE AND DERMATITIS. CHRONIC EYE EXPOSURE CAN LEAD TO DESTRUCTION OF EYE TISSUE TO BLINDNESS.
TARGET ORGANS: LIVER, KIDNEY, LYMPHOID SYSTEM, SKIN, BLOOD, EYES, AND RESPIRATORY SYSTEM. DISEASES OF THESE SYSTEMS MAY BE EXACERBATED BY PROLONGED OVEREXPOSURE TO THIS PRODUCT.

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

EMERGENCY & FIRST AID PROCEDURES

INHALATION :
TYPICALLY NOT A HAZARD, BUT GET TO FRESH AIR AND TREAT SYMPTOMATICALLY.

EYE CONTACT:
OBJECT IS TO SEEK MEDICAL ATTENTION 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 IF ANY IRRITATION PERSISTS.

SKIN CONTACT:
WASH WITH PLENTY OF WATER. SEEK MEDICAL ATTENTION IF ANY IRRITATION PERSISTS.

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

NOTES TO PHYSICIAN :
A. SODIUM METASILICATE - GASTRIC LAVAGE IS INDICATED.
B. ETHYLENE GLYCOL MONOBUTYL ETHER - ORGANIC ABNORMALITIES IN MAN RESULTING FROM OVEREXPOSURE BY ANY ROUTE LIKELY WOULD BE ABNORMAL BLOOD PICTURE, CHARACTERIZED BY ERYTHROPENIA, RETICULOCYTSIS, GRANULOCYTOSIS AND LEUKOCYTOSIS.

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

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

SODIUM METASILICATE
SKN-HMN: 250MG/24 SEV 3.
ORAL-PIG: LDLO 250MG/KG 3.
ETHYLENE GLYCOL MONOBUTYL ETHER
IHL-HMN: TCLO 195PPM/8H IRR 3.
ORAL-RAT: LD50 1480MG/KG 3.
IHL-RAT:LCLO 500PPM/4H 3.

SECTION VII - REACTIVITY DATA

	X<--STABLE	<--UNSTABL	CONDIDTIONS TO AVOID
STABILITY	N/A		

INCOMPATIBILITY (MATERIALS TO AVOID)
OVEREXPOSURE: DARKENS ALUMINUM, TIN, ZINC.
ETCHES: ANODIZED ALUMINUM AND GLASS IF LEFT TO DRY.

HAZARDOUS DECOMPOSITION PRODUCTS

IF BURNED OR INCINERATED, MAY EMIT ACRID SMOKE.

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

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
SMALL SPILL: FLUSH SURFACE WITH LARGE VOLUMES OF WATER & FLUSH DOWN DRAIN.
LARGE SPILL: STOP LEAKS. CONTAIN SPILL. REMOVE BY WET VACUUM OR ABSORBANT. REUSE SPILLED MATERIAL IF POSSIBLE. OTHERWISE, PLACE IN CLOSED LABELED CONTAINER AND STORE IN A SAFE PLACE. FLUSHING REMAINING RESIDUE TO DRAIN.

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

NEUTRALIZING AGENT

DILUTE (10%) HCL OR FLUSH WITH LARGE AMOUNTS OF WATER.

SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION
GOOD INDUSTRIAL HYGIENE PRACTICE DICTATES THAT THE WORK AREAS SHOULD PROVIDE ADEQUATE VENTILATION OR CONTROLS TO MAINTAIN AND MEET OSHA REQUIREMENT.

RESPIRATORY PROTECTION
GENERAL EXHAUST IS ADEQUATE UNDER NORMAL CIRCUMSTANCES.

PROTECTIVE GLOVES
WEAR IMPERVIIOUS GLOVES (SYNTHETIC, ELASTOMERS OR PVC) TO MINIMIZE SKIN CONTACT.

EYE PROTECTION
CHEMICAL GOGGLES DEPENDING UPON SEVERITY OF CONTACT.

OTHER PROTECTION
N/A

SECTION X - STORAGE AND HANDLING INFORMATION

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

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING
STORE IN COOL, DRY PLACE.
KEEP OUT OF REACH OF CHILDREN.
READ AND FOLLOW LABEL DIRECTIONS.

OTHER PRECAUTIONS
N/A

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME	C.A.S. NUMBER	UPPER % LIMIT
N/A		

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)

SUPER FOAM 380

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

SHIPPING NAME

HAZARD CLASS | ID NUMBER | REPORT QTY

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. NIOSH POCKET GUIDE TO CHEMICAL HAZARDS, 1978.
3. 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.

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