

SECTION I - GENERAL INFORMATION

 CHEMICAL NAME & SYNONYMS | TRADE NAME & SYNONYMS
 N/A | AEROLUBE 450 AEROSOL

 CHEMICAL FAMILY : | FORMULA
 LUBRICANT | X <--MIXTURE

 MANUFACTURE'S 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
 DAVID ABELL / CHEMIST | K400 | 214-438-1381

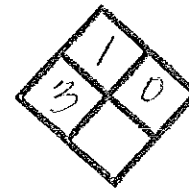
SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

 CHEMICAL NAME (INGREDIENTS) :
 METHYLENE CHLORIDE
 HAZARD---->SUSP CARC. | TLV--->50PPM | PEL--->500PPM
 STEL(TWA)*->NA | CAS#-->75-09-2 |

 ALIPHATIC HYDROCARBON
 HAZARD---->COMB. | TLV--->100PPM | PEL--->100PPM
 STEL(TWA)*->NA | CAS#-->8052-41-3 |

SECTION IIA - NON-HAZARDOUS INGREDIENTS
 NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE
 SECRET REGISTRY # 681597-5013P



AEROLUBE 450 AEROSOL
 KEM MFG
 214-438-1381

SECTION III - PHYSICAL DATA

 BOILING PT. (F) | N/A | SPEC. GRAVITY (H2O=1) | 1.080

 VAPOR PR. (MM HG) | N/A | COLOR | WHITE

 VAPOR DENSITY | N/A | DDOR | METHYLENE CHLORIDE

 PH. @ 100% | N/A | CLARITY | WHITE

 % VOLATILE BY VOL | 77 | EVAPORATION RATE
 (BU A/C = 1) | < 1

 H2O SOLUBILITY | NEGLIGIBLE

 VISCOSITY | NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

 FLASH POINT: FLAM. | FLAMMABLE LIMITS | LEL | UEL
 N/A | N/A | N/A | N/A

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

 SPECIAL FIRE FIGHTING PROCEDURES
 WEAR NIOSH/MSHA APPROVED RESPIRATOR WHEN FIGHTING FIRES CONFINED AREAS TO
 PROTECT FROM ACRID SMOKE AND TOXIC/CORROSIVE HAZARDOUS DECOMPOSITION
 PRODUCTS.

 UNUSUAL FIRE AND EXPLOSION HAZARDS
 CONTENTS PRESSURIZED AT ELEVATED TEMPERATURES. CARBONYL HALIDES (PHOSGENE)
 AND HYDROGEN CHLORIDE GAS MAY BE FORMED IN FIRES INVOLVING THIS PRODUCT.
 (CONTINUED IN REFERENCES SECTION VII)

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

SECTION V - HEALTH HAZARD DATA

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

*FAN TRUCK
 PER MURPHY
 ESC ANNEX*

MAR 07 1991

PURCHASING

(CONTINUED) - SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE :

- ACUTE - (SHORT TERM EXPOSURE)
CAN LEAD TO CENTRAL NERVOUS SYSTEM DEPRESSION, HEADACHE, DIZZINESS, NAUSEA AND LOSS OF CONSCIOUSNESS. PRODUCT WILL DEFAT SKIN AND MAY CAUSE IRRITATION LEADING TO DERMATITIS. WILL CAUSE IRRITATION TO EYES, POSSIBLY DEFATTING THE CORNEA LEADING TO BLURRED VISION. INGESTION MAY RESULT IN NAUSEA, GASTROINTESTINAL IRRITATION, BLINDNESS, COMA AND DEATH.

- CHRONIC - (LONG TERM EXPOSURE)
INGESTION OR MASSIVE CONTINUOUS INHALATION CAN CAUSE BLURRED VISION AND BLINDNESS. WILL CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, KIDNEY DAMAGE, DERMATITIS, CHEMICAL PNEUMONITIS AND POSSIBLY CANCER OR DEATH. CHRONIC SKIN CONTACT CAN CAUSE DERMATITIS. SYSTEMIC AND OTHER EFFECTS: EXCESSIVE EXPOSURE MAY CAUSE CENTRAL NERVOUS SYSTEM, LIVER OR KIDNEY EFFECTS. METHYLENE CHLORIDE HAS BEEN SHOWN TO INCREASE THE RATE OF BENIGN TUMORS IN ANIMALS AND DID NOT CAUSE BIRTH DEFECTS. OTHER EFFECTS WERE SEEN IN THE FETUS ONLY AT DOSES WHICH CAUSED TOXIC EFFECTS TO THE MOTHER. IN ANIMAL STUDIES HAS BEEN SHOWN NOT TO INTERFERE WITH REPRODUCTION. NEGATIVE OR EQUIVOCAL RESULTS HAVE BEEN OBTAINED USING MAMMALIAN CELLS OR ANIMALS. THIS IS CONSISTENT WITH THE LACK OF INTERACTION WITH DNA IN RATS AND HAMSTERS.
(CONTINUED IN TOXICITY - SECTION VI)

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

EMERGENCY & FIRST AID PROCEDURES

INHALATION:
GET PERSON OUT OF CONTAMINATED AREA TO FRESH AIR. TREAT SYMPTOMATICALLY. IF BREATHING HAS STOPPED, ARTIFICIAL RESPIRATION SHOULD BE STARTED. OXYGEN SHOULD BE ADMINISTERED, IF READILY AVAILABLE. SEEK MEDICAL ATTENTION.

EYE CONTACT:
IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, HOLDING EYELIDS APART TO ENSURE FLUSHING OF THE ENTIRE EYE SURFACE. SEEK MEDICAL ATTENTION.

SKIN CONTACT:
WASH SKIN WITH SOAP AND WATER. A SOOTHING EMOLLIENT CREAM MAY BE APPLIED TO IRRITATED SKIN AFTER CLEANSING. THE MILD BUT TRANSIENT IRRITATION WHICH MAY RESULT SHOULD BE BROUGHT TO THE ATTENTION OF A PHYSICIAN SHOULD THE IRRITATION PERSIST.

(CONTINUED) - (CONTINUED) - SECTION V - HEALTH HAZARD DATA

INGESTION :
IF SWALLOWED, DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, POSITION THE PERSON'S HEAD SO AS TO KEEP THE AIRWAY CLEAR. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION IMMEDIATELY.

NOTES TO PHYSICIAN :
DEPENDING UPON THE AMOUNT INGESTED AND RETAINED, AS WELL AS THE TOXICITY OF THIS PRODUCT, GASTRIC LAVAGE SHOULD BE CONSIDERED. KEEP PATIENT'S HEAD BELOW HIPS TO PREVENT PULMONARY ASPIRATION. IF COMATOSE, A CUFFED ENDOTRACHEAL TUBE WILL PREVENT ASPIRATION. CONSULT A POISON CONTROL CENTER. PROTECT PATIENT'S EYES FROM LIGHT.

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

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

METHYLENE CHLORIDE

CARCINOGENESIS:

ORL-MUS: 3500MG/KG LIFETIME 1.
IHL-RAT: 500MG/KG LIFETIME 3.
IHL-HMN TCLO: 500PPM/1G-TFX:CSN 4.
IHL-HMN TCLO: 500PPM/18M TFX:BLD 4.
ALIPHATIC HYDROCARBON
EYE-HMN 470 PPM/15M 3.
IHL-CAT LCLO: 10G/M3/2.5H 3.

(CONT. FROM CHRONIC HEALTH HAZARDS)
ALTHOUGH RESULTS OF AMES BACTERIAL TESTS HAVE GENERALLY BEEN POSITIVE, OVERALL THE DATA SUGGEST THAT GENOTOXIC POTENTIAL DOES NOT APPEAR TO BE A SIGNIFICANT FACTOR IN THE TOXICITY OF METHYLENE CHLORIDE.

SECTION VII - REACTIVITY DATA

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

HIGH TEMPERATURES, OPEN FLAMES, ELECTRICAL ARCS.

(CONTINUED) - SECTION VII - REACTIVITY DATA

INCOMPATIBILITY (MATERIALS TO AVOID) :
STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS
OXIDES OF CARBON, HYDROGEN CHLORIDE, PHOSGENE

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

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
VENTILATE AREA. REMOVE ALL UNNECESSARY PERSONNEL. PERSONS PERFORMING CLEANUP SHOULD OBSERVE PROPER PRECAUTIONS. STOP LEAKS AND/OR CONTAIN SPILL. REMOVE LARGE SPILLS WITH VACUUM TRUCK AND SMALL SPILLS WITH ABSORBANTS AND PLACE IN CLOSED, LABELED CONTAINERS FOR DISPOSAL. STORE IN A SAFE OUTDOOR AREA TO AWAIT PROPER DISPOSAL.

WASTE DISPOSAL METHOD(S):
DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING HEALTH AND POLLUTION. NORMALLY RECOVERED FROM RESIDUES BY DISTILLATIONS. SMALL QUANTITIES MAY BE DISPOSED OF VIA AN INCINERATION/SCRUBBER SYSTEM OR BY A LICENSED WASTE DISPOSER, IF REGULATIONS PERMIT. WET ABSORBANT MATERIALS, MAY BE AIR DRIED IN A SAFE, OPEN, UNOCCUPIED AREA.

NEUTRALIZING AGENT :
NONE

SECTION IX - SPECIAL PROTECTION INFORMATION

(CONTINUED) - SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION :

GOOD INDUSTRIAL HYGIENE PRACTICE DICTATES THAT THE WORK AREA SHOULD BE ISOLATED AND CONTAINED, AND PROVIDED WITH ADEQUATE LOCAL EXHAUST VENTILATION OR OTHER CONTROLS TO MAINTAIN THE AIR CONCENTRATION OF METHYLENE CHLORIDE BELOW 100 PPM (8 HOUR-TWA) AS REQUIRED BY OSHA.

RESPIRATORY PROTECTION :
IN ABSENCE OF PROPER ENVIRONMENTAL CONTROLS, A SELF CONTAINED BREATHING APPARATUS (COMPRESSED OXYGEN SHOULD NOT BE USED IN TANKS OR OTHER CONFINED AREAS), POSITIVE-PRESSURE HOSE MASK, AIR LINE MASKS, AND NIOSH-APPROVED INDUSTRIAL CANISTER TYPE ORGANIC VAPOR MASK (CONCENTRATION NOT EXCEEDING 2% BY VOLUME USE FOR SHORT PERIODS OF EXPOSURE ONLY) ARE ACCEPTABLE.
FOR METHANOL IN EMERGENCY SITUATIONS: 2000PPM: SA/SCBA
10,000PPM: SAF/SCBAF
25,000PPM: SAF:PD,PP,CF
ESCAPE:SCBA

GLOVE PROTECTION :
RUBBER, SYNTHETIC ELASTOMERS, PVC GLOVES SHOULD BE WORN IF REPEATED/PROLONGED EXPOSURE LIKELY.

EYE PROTECTION :
CHEMICAL SAFETY GOGGLES AND/OR FACE SHIELD SHOULD BE WORN DEPENDING ON SEVERITY OF EXPOSURE.

OTHER PROTECTION :
SYNTHETIC APRON SHOULD BE WORN IF LARGE AMOUNTS ARE BEING HANDLED.

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE	INDOOR	HEATED	REFRIGERATED	OUTDOOR
MAX: 80 F. MIN: 35 F.	X			

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

(CONTINUED) - SECTION X - STORAGE AND HANDLING INFORMATION

POSSIBLE WATER CONTAMINATION AS THIS REACTS WITH
THE CHLORINATED SOLVENTS AND PRODUCE CORROSIVE
HCL.

OTHER PRECAUTIONS
REMOVE CONTAMINATED CLOTHING AND FOOT WEAR AND
WASH CLOTHING BEFORE RESUE. DISCARD FOOT WEAR
WHICH CANNOT BE CONTAMINATED. KEEP OUT OF REACH
OF CHILDREN.

SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME	C.A.S NUMBER	UPPER % LIMIT
METHYLENE CHLORIDE	75-09-2	60

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIRMENTS 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.

CALIFORNIA PROPOSITION 65

WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) KNOWN TO
THE STATE OF CALIFORNIA TO CAUSE (1)CANCER OR (2)BIRTH DEFECTS OR
OTHER REPRODUCTIVE HARM:
NONE

SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

LABELS | LIMITED QTY

(CONTINUED) - SECTION XII - TRANSPORTATION * (FOR FUTURE USE)

UNIT CONTAINER

DOT SPS CONTAINER | NET EXPLDSIVE WT.
AEROSOL PROPELLANT(S)

SECTION XIII - REFERENCES

- VENDOR'S MATERIAL SAFETY DATA SHEET.
- THRESHOLD LIMIT VALUE FOR CHEMICAL SUBSTANCES IN THE WORK ENVIRONMENT,
2ND EDITION, ACGIH, 1985.
- DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 6TH EDITION, N. IRVING
SAX.
- NIOSH REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, 1982.

*PRODUCT IS PERFECTLY SUITABLE FOR CLEANING ALUMINUM.

* SHORT TERM EXPOSURE LIMIT (TWA) LISTED AS FINAL RULE LIMITS PUBLISHED IN
THE FEDERAL REGISTER/VOL. 54 NO. 12, 1-19-89

THE INFORMATION CONTAINED HERIN IS BASED ON DATA CONSIDERED ACCURATE IN
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USE THEREOF.

KEM MFG. DIV. OF SYSTEMS GENERAL ASSUMES NO RESPONSIBILTY 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.