

SECTION I - GENERAL INFORMATION

 CHEMICAL NAME & SYNONYMS N/A TRADE NAME & SYNONYMS AEROLEX PLUS AEROSOL

 CHEMICAL FAMILY ALCOHOL MIXTURE FORMULA X <-- MIXTURE

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SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

 CHEMICAL NAME (INGREDIENTS) :
 ISOPROPANOL HAZARD---->FLAM/IRR TLV--->400PPM 1. PEL--->400PPM 2.
 STEL(TWA)*->500PPM CAS#-->67-63-0

 PROPANE HAZARD---->FLAMMABLE TLV--->NOT EST. 1 PEL--->NOT EST. 2
 STEL(TWA)*->NOT EST. CAS#-->74-98-6

 ISOBUTANE HAZARD---->FLAMMABLE TLV--->NOT EST. 1 PEL--->NOT EST. 2
 STEL(TWA)*->NOT EST. CAS#-->75-28-5

 N-BUTANE HAZARD---->FLAMMABLE TLV--->NOT EST. 1 PEL--->NOT EST. 2
 STEL(TWA)*->NOT EST. CAS#-->106-97-8

SECTION III - PHYSICAL DATA

 BOILING PT. (F) 180 SPEC. GRAVITY (H2O=1) 0.817

 VAPOR PR. (MM HG) 33 COLOR GRAY

 VAPOR DENSITY 2.07 ODDR ALCOHOL

 PH. @ 100% N/A CLARITY OPAQUE

 % VOLATILE BY VOL 94 EVAPORATION RATE (BU A/C = 1) 2.88

 H2O SOLUBILITY NEGLIGIBLE

 VISCOSITY NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

 FLASH POINT: 47XF. FLAMMABLE LIMITS LEL UEL
 SETAFLASH ISOPROPANOL 2.0 12.7

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

 SPECIAL FIRE FIGHTING PROCEDURES
 FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL
 PROTECTIVE GEAR.

 UNUSUAL FIRE AND EXPLOSION HAZARDS
 VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION
 AND FLASHBACK. USE WATER TO COOL FIRE EXPOSED CONTAINERS TO PREVENT
 BURSTING. FLAME EXTENSION = >36 INCHES. BURNBACK = 6 INCHES.

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

SECTION V - HEALTH HAZARD DATA

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

(CONTINUED) - SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE :

- ACUTE - (SHORT TERM EXPOSURE)
 EYE CONTACT: CAUSES IRRITATION SEEN AS ITCHING, REDNESS, BLURRED VISION AND A BURNING SENSATION.
 SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING, REDNESS AND PROLONGED CONTACT CAN CAUSE DERMITITIS. THE PRODUCT MAY BE ABSORBED THROUGH THE SKIN BUT HARMFUL EFFECTS ARE NOT EXPECTED.
 INHALATION: MAY CAUSE HEADACHE, DIZZINESS AND NAUSEA. EXCESSIVE INHALATION OF VAPORS MAY CAUSE IRRITATION TO THE EYES, NOSE AND THROAT WITH POSSIBLE IMPAIRED COORDINATION, CONFUSION AND CENTRAL NERVOUS SYSTEM DEPRESSION.
 INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION SEEN AS NAUSEA, VOMITING AND DIARRHEA. LARGE AMOUNTS MAY CAUSE IMPAIRED COORDINATION AND CENTRAL NERVOUS SYSTEM DEPRESSION SEEN AS FATIGUE, HEADACHE OR UNCONSCIOUSNESS, LOW BLOOD PRESSURE AND REVERSIBLE LIVER EFFECTS AND KIDNEY DAMAGE.

- CHRONIC - (LONG TERM EXPOSURE)

NO CHRONIC DATA AVAILABLE.
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS.
 TARGET ORGANS: LIVER, KIDNEY, CENTRAL NERVOUS SYSTEM, HEART, SPLEEN AND LUNGS.

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

EMERGENCY & FIRST AID PROCEDURES

INHALATION :
 REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

EYE CONTACT:
 RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

SKIN CONTACT:
 WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INGESTION :
 GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING

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

OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

NOTES TO PHYSICIAN :
 THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY.

SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

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

ISOPROPANOL
 SKN-RBT 500MG MLD 3.
 EYE-RBT 10MG MOD 3.
 IHL-MUS LC50: 12800PPM/3H 3.
 ORL-RAT LD50: 5800MG/KG 4.

PROPANE
 NO TOXICITY DATA AVAILABLE.

ISOBUTANE
 NO TOXICITY DATA AVAILABLE.

N-BUTANE
 IHL-RAT LD50: 658 G/M3/4H 3.
 IHL-MUS LC50: 680 G/M3/2H 3.

SECTION VII - REACTIVITY DATA

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

AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.

INCOMPATIBILITY (MATERIALS TO AVOID) :
 OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND HYDROGEN PEROXIDE, AND ACIDS, ACETALDEHYDE AND ISOCYANATE.

HAZARDOUS DECOMPOSITION PRODUCTS
 OXIDES OF CARBON.

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:
DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR A SMALL SPILL, ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. WEAR APPROPRIATE PROTECTIVE CLOTHING.

WASTE DISPOSAL METHOD(S):
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. TYPICAL DISPOSAL IS TO WRAP THE EMPTY AEROSOL CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN THE TRASH.

NEUTRALIZING AGENT :
NONE KNOWN.

SECTION IX - SPECIAL PROTECTION INFORMATION

REQUIRED VENTILATION :
GENERAL VENTILATION IS NORMALLY ADEQUATE.

RESPIRATORY PROTECTION :
NONE REQUIRED UNDER NORMAL CONDITIONS OF USE.
A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS OR WHERE MISTING EXISTS.

GLOVE PROTECTION :
NEOPRENE RUBBER GLOVES IF REPEATED OR PROLONGED CONTACT IS LIKELY.

EYE PROTECTION :
SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

OTHER PROTECTION :
NONE UNDER NORMAL CONDITIONS OF USE.

SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE	INDOOR	HEATED	REFRIGERATED	OUTDOOR
MAX: 120°F. MIN:	Ox°F.	X		

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING:
AVOID HEAT, HOT SURFACES, SPARKS OR OPEN FLAME.
WASH THOROUGHLY AFTER HANDLING. USE ONLY WITH ADEQUATE VENTILATION.

OTHER PRECAUTIONS:
KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

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

(CONTINUED) - SECTION XI - REGULATORY INFORMATION

313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372. IF USE (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
UNIT CONTAINER	
DOT SPS CONTAINER	NET EXPLOSIVE WT.
AEROSOL PROPELLANT(S)	

SECTION XIII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1996-1997.
 2. OSHA PEL.
 3. SAX'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, EIGHTH EDITION, RICHARD J. LEWIS, SR.
 4. VENDOR'S MSDS.
- IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, COMB: COMBUSTIBLE, CORR: CORROSIVE, CARC: CARCINOGENIC, TOX: TOXIC, N/A: NOT APPLICABLE, N/E: NOT ESTABLISHED, COC: CLEVELAND OPEN CUP, PMCC: PENSKY-MARTIN CLOSED CUP, TCC: TAGLIABUE CLOSED CUP, LEL: LOWER EXPLOSION LIMIT, UEL: UPPER EXPLOSION LIMIT, NFPA: NATIONAL FIRE PROTECTION ASSOCIATION, IARC: INTERNATIONAL AGENCY FOR THE RESEARCH ON

(CONTINUED) - SECTION XIII - REFERENCES

CANCER, NTP: NATIONAL TOXICOLOGY PROGRAM, OSHA: OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV: THRESHOLD LIMIT VALUE, PEL: PERMISSIBLE EXPOSURE LEVEL, STEL: SHORT TERM EXPOSURE LIMIT, MLD: MILD, MOD: MODERATE, SEV: SEVERE,

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

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