

OSOL
MATERIAL SAFETY DATA SHEET T-LUBE PLUS AER
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SUPERCEDES: 08/20/2001

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms: T-LUBE PLUS AEROSO
N/A
L
Trade Name & Synonyms:
T-LUBE PLUS AEROSO
Chemical Family: Formula Mixture:
AEROSOL TELOMER LUBRICANT X

Manufacturer's Name: CERTIFIED LABS, DIV. OF NCH CORP.

Address: BOX 152170
IRVING, TEXAS 75015
Prepared By: L Boynton/Chemist
Product Code Number: 5496
Emergency Phone Number: 800-424-9300

SECTION II - HAZARDOUS INGREDIENTS
THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients): POLYTETRAFLUOROETHYLENE
Hazard: IRRITANT
TLV: N/E 1.
PEL: N/E 2.
STEL: N/E
CAS#: 9002-84-0

Chemical Name (Ingredients): PROPANE
Hazard: FLAM/ASPHX
TLV: 2500 PPM 1
PEL: 1000 PPM 2
STEL: N/E
CAS#: 74-98-6

Chemical Name (Ingredients): ISOBUTANE

Hazard: FLAM/ASPHX
TLV: N/E 1.
PEL: N/E 2.
STEL: N/E
CAS#: 75-28-5

Chemical Name (Ingredients): ISOPROPYL ALCOHOL
Hazard: FLAM/IRR
TLV: 200 PPM 1
PEL: 400 PPM 2
STEL: 400 PPM 1
CAS#: 67-63-0

SECTION III - PHYSICAL DATA

Boiling Point (f): 180°
Specific Gravity (H2O=1): 0.69
Vapor Pressure (MM HG): 1312
Color: WHITE
Vapor Density (Air=1): 1.9
Odor: ALCOHOL
PH @ 100%: 4-6
Clarity: CLOUDY
Volatile by Volume: 97-98
Evaporation Rate (BU A/C=1): 51.56
H2O Solubility: APPRECIABLE
Viscosity: NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point: 53°F / SETAFLASH
Flammable Limits: PRODUCT MIXTURE .7%
LEL: 1.8% UEL:12

Extinguishing Media:
Foam: X Alcohol Foam: X CO2: X
Dry Chemical: X Water Spray: X Other:

Special Fire Fighting Procedures:
FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARA
TUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN
BASED ON THE NATURE OF THE SURROUNDING FIRE. COOL FIRE-EXPOSED CO



TRAINERS WITH WATER SPRAY TO PREVENT BURSTING.

Unusual Fire and Explosion Hazards:
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK. FLAME EXTENSION IS >30 INCHES, BURN BACK IS 0 INCHES.

Aerosol Level (NFPA 30B): 3
NFPA 704 Hazard Rating: (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)
Health: 2 Flammability: 4 Instability: 0 Special:

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

-Acute (Short Term Exposure)
EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS REDNESS, TEARING, AND A BURNING SENSATION. MAY CAUSE TISSUE DAMAGE.
SKIN CONTACT: CAUSES IRRITATION SEEN AS ITCHING AND REDNESS.
INHALATION: CAUSES RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. AT HIGH VAPOR CONCENTRATIONS, INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, DIZZINESS, DROWSINESS, WEAKNESS, UNCONCIOUSNESS, POSSIBLE ANESTHETIC EFFECTS FROM CENTRAL NERVOUS SYSTEM DEPRESSION, AND MAY BE FATAL. INHALATION OF FLUORINE COMPOUNDS RELEASED AS DECOMPOSITION PRODUCTS MAY CAUSE LUNG IRRITATION AND PULMONARY EDEMA. INHALATION OF FUMES OR SMOKE FROM OVERHEATED OR BURNING PRODUCT MAY CAUSE POLYMER FUME FEVER, A TEMPORARY FLU-LIKE ILLNESS ACCOMPANIED BY FEVER, CHILLS, AND COUGHING.
INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING, AND DIARRHEA. INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL.

-Chronic (Long Term Exposure)
REPEATED EPISODES OF POLYMER FUME FEVER MAY CAUSE LUNG DAMAGE. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS
TARGET ORGANS: CENTRAL NERVOUS SYSTEM AND LUNGS.
Primary Routes of Entry: Inhalation: X Ingestion: Absorption:

Emergency and 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:
IMMEDIATELY RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HOLD THE EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

-Skin Contact:
WASH AFFECTED AREAS WITH LARGE AMOUNTS OF SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

-Ingestion:
GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

-Notes to Physician:
THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY. ACTIVATED CHARCOAL MIXTURE MAY BE BENEFICIAL. SUSPEND 50 G ACTIVATED CHARCOAL IN 400 ML WATER AND MIX WELL. ADMINISTER 5 ML/KG, OR 3 50 ML FOR AN AVERAGE ADULT. DEPENDING ON THE AMOUNT INGESTED AND RETAINED AS WELL AS THE TOXICITY OF THE 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.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:
IARC: No
ACGIH: No
OTHER: No
NTP: No
OSHA: No
VOC CONTENT: 98.1% BY WEIGHT; 99.3% BY VOLUME; 676.6 G/L
POLYTRAPFLUOROETHYLENE
NO TOXICITY DATA AVAILABLE

PROpane
NO TOXICITY DATA AVAILABLE

ISOBUTANE

IHL-RAT LC50: 57 PPH/15M 3.

NO APPARANT ILL EFFECTS IN BREATHING CONCENTRATIONS OF 5% FOR 2 HOURS. 4.
CAUSES DROWSINESS IN SHORT TIME IN CONCENTRATIONS OF 1%. 4.

ISOPROPYL ALCOHOL

IHL-RAT LC50: 16000 PPM/8H 3.

ORL-HMN LDLO: 3570 MG/KG 3.

ORL-RAT LD50: 5045 MG/KG 3.

SKN-RBT LD50: 12800 MG/KG 3.

SKN-RBT SDT: 500 MG MILD 3.

EYE-RBT SDT: 1.0 MG MODERATE 3.

SECTION VII - REACTIVITY DATA

Stability: Stable: X Unstable:

Conditions to Avoid: AVOID HEAT, HOT SURFACES, SPARKS, AND OPEN FLAMES.

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; ALDEHYDES, ALKANOLAMINES, AMINES, BASES, AND CHLORINATED COMPOUNDS.

Hazardous Decomposition Products:

OXIDES OF CARBON; CARBONYL FLUORIDE AND HYDROGEN FLUORIDE.

Hazardous Polymerization:

May Occur: Will Not Occur: X

Conditions to Avoid: 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, ELIMINATE IGNITION SOURCES OF ELECTRICAL, STATIC, OR FRICTIONAL SPARKS. WEAR APPROPRIATE PROTECTIVE CLOTHING, VENTILATE THE AREA, ABSORB WITH AN INERT MATERIAL AND TRANSFER A

ILL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. USE CARE AS SPILLS MAY BE SLIPPERY.

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. AEROSOL RECYCLING PROGRAMS ARE AVAILABLE IN MANY AREAS. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.

Neutralizing Agent:

N/A

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF MISTS OR VAPORS. LOCAL VENTILATION IS PREFERRED, BECAUSE IT PREVENTS DISPERSION INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE.

Respiratory Protection:

RESPIRATORS SHOULD BE SELECTED BY AND USED UNDER THE DIRECTION OF A TRAINED HEALTH AND SAFETY PROFESSIONAL FOLLOWING REQUIREMENTS FOUND IN OSHA'S RESPIRATOR STANDARD (29 CFR 1910.134) AND ANSI'S STANDARD FOR RESPIRATORY PROTECTION (Z88.2-1992). FOR CONCENTRATIONS ABOVE THE TLV AND/OR PEL BUT LESS THAN 10 TIMES THESE LIMITS, A NIOSH APPROVED HALF-FACED PIECE RESPIRATOR EQUIPPED WITH APPROPRIATE CHEMICAL CARTRIDGES MAY BE USED. FOR CONCENTRATIONS GREATER THAN 10 TIMES THE TLV AND/OR PEL, CONSULT THE NIOSH RESPIRATOR DECISION LOGIC FOUND IN PUBLICATION NO. 97-116 OR ANSI Z88.2-1992.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR HAND PROTECTION, 29 CFR 1910.138.

Eye Protection:

CHEMICAL GOGGLES SHOULD BE WORN WHEN HANDLING. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR FACE AND EYE PROTECTION, 29 CFR 1910.133.

Other Protection:

WEAR GENERAL-DUTY WORK CLOTHES AND SHOES. A SAFETY SHOWER AND AN EYE WASH STATION SHOULD BE AVAILABLE.

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SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors: X Outdoors:
 Heated: Refrigerated:
 Minimum Temperature: 35°F Maximum Temperature: 120°F

Precautions to be taken in Handling and Storing:
 USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY, AND OPEN FLAME. ALWAYS STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

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	CAS Number	Upper & Limit
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Those ingredients listed above are subject to the reporting requirements of 313 of Title III and of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2003.
2. OSHA PEL.
3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINPOWeb, 2003.
4. VENDOR'S MSDS

ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING.

IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, COMB: COMBUSTIBLE, CORR: CORROSIVE, CARC: CARCINOGENIC, TOX: TOXIC, N/A: NOT APPLICABLE, N/E: NOT ESTABLISHED, CCG: CLEVELAND OPEN CUP, PMCC: PENNSKY-VAR

TIN CLOSED CUP, FCC: TAGLIABUE CLOSED CUP, LEL: LOWER EXPLOSION LIMIT, UEL: UPPER EXPLOSION LIMIT, NFPA: NATIONAL FIRE PROTECTION ASSOCIATION, IARC: INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP: NATIONAL TOXICOLOGY PROGRAM, OSHA: OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV: THRESHOLD LIMIT VALUE, PEL: PERMISSIBLE EXPOSURE LIMIT, STEL: SHORT-TERM EXPOSURE LIMIT, MLD: MILD, MOD: MODERATE, SEV: SEVERE, MOT: MOTAGENIC, ASPHYX: ASPHYXANT, PMOS: PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SPT: STANDARD DRAIZE TEST, ORL: ORAL, IHL: INHALATION, HAN: HUMAN

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