

MATERIAL SAFETY DATA SHEET: LD ALUM COMPLEX GREASI

Section I - General Information

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Date of Issue:
7/12/2006 12:00:00 AM

Supersedes:
3/22/2002 12:00:00 AM

Chemical Name & Synonyms:
N/A

Trade Name & Synonyms:
LD ALUM COMPLEX GREASE

Chemical Family:
PETROLEUM MIXTURE

Formula is a mixture: [√]

Manufacturer Name:
MANTEK, DIVISION OF NCH CORP.

Manufacturer Address:
BOX 152170
IRVING, TEXAS 75015

Prepared By:
R Mohochi/Chemist

Product Code Number:
4563

Emergency Phone Number:
800-424-9300

Section II - Hazardous Ingredients

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

<u>Chemical Name (Ingredients)</u>	<u>Hazard</u>	<u>TLV</u>	<u>PEL</u>	<u>STEL</u>
HYDROTREATED NAPHTHENIC PETROLEUM DISTILLATES	IRRITANT	5 MG/M3 \$1	5 MG/M3 \$2	10 MG/M3\$
SOLVENT REFINED PETROLEUM DISTILLATE	IRRITANT	5 MG/M3 \$1	5 MG/M3 \$2	10 MG/M3\$
ANTIMONY DIALKYLDITHIOCARBAMATE	IRRITANT	.5MG/M3 #1	.5MG/M3 #2	N/E
ALUMINUM BENZOATE FATTY ACID COMPLEX	IRRITANT	N/E 1	N/E 2	N/E
BARIUM DINONYLNAPHTHALEINE	IRRITANT	N/E 1	N/E 2	N/E
STYRENE-ETHYLENE/PROPYLENE BLOCK COPOLYMER	IRRITANT	N/E 1	N/E 2	N/E
# AS ANTIMONY				
* 64742-52-5 AND 64742-53-6				
\$\$ 64741-88-4 AND 64742-65-0				
\$ OIL MIST				

Section III - Physical Data

Boiling Point (°F): >450°	Specific Gravity (H₂O=1): 0.91
Vapor Pressure (mm Hg): <0.1	Color: RED
Vapor Density (Air=1): 5.3	Odor: OILY
pH @ 100% : N/A	Clarity: TRANSPA
% Volatile by Volume: 0	Evaporation Rate (BuAc=1): <0.01
H₂O Solubility: NEGLIGIBLE	Viscosity: VISCOUS

Section IV - Fire and Explosion Hazard

Flash Point: >410°F
Flammable Limits: PETROLEUM DISTILLATE
LEL: 0.9%

Method Used: C.O.C.
UEL: 7.0%
Aerosol Level (NFPA 30B): N/A

Extinguishing Media:

[√] Foam [√] Alcohol Foam [√] CO₂

NFPA 704 Hazard Rating:

4-Extreme Health: 1

Dry Chemical Water Spray Other

3-High Flammability: 1
 2-Moderate Instability: 0
 1-Slight Special:
 0-Insignificant

Special Fire Fighting Procedures:

FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE. COOL FIRE CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.

Unusual Fire and Explosion Hazards:

THE USE OF WATER SPRAY (FOG) WHILE EFFECTIVE, MAY CAUSE FROTHING AND FOAMING. NEVER USE A WATER SPRAY AS THIS WILL JUST SPREAD THE FIRE. USE CARE AS SPILLS MAY BE SLIPPERY.

Section V - Health and Hazard Data

Threshold Limit Value:

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:**Acute: (Short Term Exposure)**

EYE CONTACT: CAUSES IRRITATION SEEN AS STINGING, TEARING, AND REDNESS. SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS. PROLONGED OR REPEATED CONTACT AS FROM CLOTHING WITH MATERIAL MAY CAUSE DRYING, DEFATTING, AND CRACKING OF THE SKIN. INJECTION UNDER THE SKIN, IN CONTACT WITH BLOOD INTO THE BLOOD STREAM CAN CAUSE IRRITATION, INFLAMMATION, SWELLING, FEVER, AND SYSTEMIC EFFECTS. MILD CENTRAL NERVOUS SYSTEM DEPRESSION. INJECTION OF PRESSURIZED HYDROCARBONS CAN CAUSE PERMANENT TISSUE DAMAGE. INITIAL SYMPTOMS MAY BE MINOR. INHALATION: MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA.

Chronic: (Long Term Exposure)

ON RARE OCCASIONS, PROLONGED AND REPEATED EXPOSURE TO OIL MIST POSES A RISK OF CHRONIC LUNG INFLAMMATION. THIS CONDITION IS USUALLY ASYMPTOMATIC AS A RESULT OF REPEATED SMALL ASPIRATION. SHORTNESS OF BREATH AND COUGHING ARE THE MOST COMMON SYMPTOMS. ASPIRATION MAY LEAD TO PULMONARY EDEMA AND HEMORRHAGE AND MAY BE FATAL. SIGNS OF LUNG INVOLVEMENT INCLUDE INCREASED RESPIRATION AND HEART RATES AS WELL AS A BLUISH DISCOLORATION OF THE SKIN. CHRONIC SKIN CONTACT MAY PROMOTE DERMATITIS AND OIL ACNE. IN RARER CASES, AN INCREASED SENSITIVITY TO SUNLIGHT (PHOTOSENSITIVITY) MAY OCCUR. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS. TARGET ORGANS: LUNG AND SKIN. KNOWN. THERE IS NO PRIMARY ROUTE OF ENTRY INTO THE BODY. THE PRIMARY ROUTES OF EXPOSURE ARE INHALATION AND EYE CONTACT.

Primary Routes of Entry

Inhalation Ingestion Absorption

Emergency First Aid Procedures:**Inhalation:**

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

WIPE AWAY MATERIAL WITH A CLOTH. WASH WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS. CLEAN CLOTHING AND SHOES.

Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

Notes to Physician:

THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY. IN THE EVENT OF INJECTION INTO UNDERLYING TISSUE, IMMEDIATE TREATMENT SHOULD INCLUDE EXTENSIVE INCISION, DEBRIDEMENT AND IRRIGATION. INADEQUATE TREATMENT CAN RESULT IN ISCHEMIA AND GANGRENE. EARLY SYMPTOMS MAY

Section VI - Toxicity Information

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC NTP OSHA ACGIH Other

VOC CONTENT: 0% BY WEIGHT; 0% BY VOLUME; 0 G/L

HYDROTREATED NAPHTHENIC PETROLEUM DISTILLATES

ORL-RAT LD50: >5000 MG/KG 3.

SKN-RBT LD50: >2000 MG/KG 3.

SKN-RBT SDT: 500 MG SEVERE 4.

SKN-RBT SDT: <0.5 - 8 NO APPRECIABLE EFFECT 3.

EYE-RBT SDT: <15 - 110 NO APPRECIABLE EFFECT 3.

SOLVENT REFINED PETROLEUM DISTILLATE (<3% DMSO EXTRACTABLE MATERIAL)

ORL-RAT LD50: >5 GM/KG 3.

IHL-RAT LC50: >5 MG/L DATA FOR SIMILAR COMPOUND 3.

SKN-RBT DRAIZED SCORE BETWEEN .5 AND 3, NON-IRRITATING 3.

EYE-RBT DRAIZED SCORE BETWEEN 6 AND 15, NON-IRRITATING 3.

MINERAL OIL AND HYDROCARBON MISTS DERIVED FROM HIGHLY REFINED OILS AND PETROLEUM DISTILLATE REPORTED TO HAVE LOW ACUTE AND SUB-ACUTE TOXICITIES IN ANIMALS. EFFECTS FROM SINGLE AND SHORT REPEATED EXPOSURES TO HIGH CONCENTRATIONS WELL ABOVE APPLICABLE WORKPLACE EXPOSURE LEVELS INCLUDE LUNG INFLAMMATORY REACTION, LIPOID GRANULOMA FORMATION, AND LIPOID PNEUMONIA. IN ANIMAL SUB-ACUTE STUDIES INVOLVING EXPOSURES TO LOWER CONCENTRATIONS AT OR NEAR CURRENT WORKPLACE EXPOSURE LEVELS PRODUCED NO SIGNIFICANT TOXICOLOGICAL EFFECTS. IN LONG TERM STUDIES (UP TO 2 YEARS) NO CARCINOGENIC EFFECTS HAVE BEEN REPORTED IN ANY ANIMAL SPECIES TESTED. THESE PETROLEUM DISTILLATES ARE SEVERELY HYDROTREATED, SEVERELY SOLVENT EXTRACTED, AND/OR PROCESSED BY MULTIPLE HYDROTREATMENT AND EXTRACTION. FOR THIS REASON, THEY ARE NOT CLASSIFIED AS CANCER HAZARD.

ANTIMONY DIALKYL DITHIOCARBAMATE

ORL-RAT LD50: 16400 MG/KG 3.

SKN-RBT LD50: 16000 MG/KG 3.

ALUMINUM BENZOATE FATTY ACID COMPLEX

NO TOXICITY DATA AVAILABLE

BARIUM DINONYLNAPHTHALEINE

NO TOXICITY DATA AVAILABLE

STYRENE-ETHYLENE/PROPYLENE BLOCK COPOLYMER

NO TOXICOLOGICAL DATA AVAILABLE

Section VII - Reactivity Data

Stability

Stable Unstable

Conditions to Avoid:

AVOID HEAT, HOT SURFACES, SPARKS, AND OPEN FLAMES.

Hazardous Polymerization

Will not occur May occur

Conditions to Avoid:

N/A

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; REDUCING AGENTS SUCH AS SODIUM THIOSULFATE.

Hazardous Decomposition Products:

OXIDES OF CARBON, NITROGEN, AND SULFUR; ACIDS, ALDEHYDES, AMINES, ANTIMONY OXIDE FUMES, KETONES, CARBON DISULFIDE, AND HYDROGEN SULFIDE.

Section VIII - Spill Or Leak Procedures

Steps to be Taken if Material is Released or Spilled:

WEAR APPROPRIATE PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK. FOR LARGE SPILLS, SCOOP INTO PROPERLY LABELED CONTAINER FOR REUSE OR DISPOSAL. FOR SMALL SPILLS, WIPE WITH A CLOTH AND TRAP ALL MATERIALS INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. USE CARE AS SPILLS MAY BE SLIP

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

Neutralizing Agent:

N/A

Section IX - Special Protection Information

Required Ventilation:

GENERAL VENTILATION IS NORMALLY ADEQUATE. LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXHAUST FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF MISTS. LOCAL VENTILATION IS PREFERRED BECAUSE IT PREVENTS DISPERSION INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE.

Respiratory Protection:

NONE REQUIRED UNDER NORMAL CONDITIONS OF USE. RESPIRATORS SHOULD BE SELECTED BY AND USED IN THE DIRECTION OF A TRAINED HEALTH AND SAFETY PROFESSIONAL FOLLOWING REQUIREMENTS FOUND IN THE 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 FACEPIECE 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 GUIDE FOUND IN PUBLICATION NO. 87-116 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:

SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF APPLICATION PRESENTS THE LIKELIHOOD OF EXHAUST. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR EYE AND FACE PROTECTION, 29 CFR 1910.133.

Other Protection:

WEAR GENERAL-DUTY WORK CLOTHING AND SHOES. REMOVE OIL SOAKED CLOTHING AND SHOES. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE. A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE.

Section X - Storage and Handling Information

Storage Temperature

Max: 120°F Min: 35°F

Storage Conditions Indoors Outdoors Heated Refrigerated**Precautions to be Taken in Handling and Storing:**

ALWAYS STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUES WHICH MAY EXHIBIT THE HAZARDS OF THE PRODUCT. AVOID POSSIBLE EXPLOSION DO NOT PRESSURIZE, CUT, WELD, SOLDER, DRILL, GRIND, OR EXPOSE EMPTY CONTAINERS TO HEAT, HOT SURFACES, SPARKS, OR OPEN FLAMES. GROUND AND BOND CONTAINER WHEN NEAR FLAMMABLE VAPORS AND ALL SOURCES OF IGNITION. BULK STORAGE: FOR MAXIMUM PRODUCT LIFE STORE CONTAINERS IN A DRY, WELL VENTILATED AREA. OUTDOOR STORAGE TIP: STORE CONTAINERS ON THEIR SIDE TO HELP PREVENT WATER ACCUMULATION ON A FLAT END AND CONSEQUENT PRODUCT CONTAMINATION.

Other Precautions:

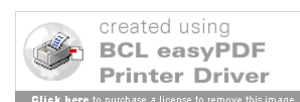
KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE DIRECTIONS.

Section XI - Regulatory Information

Chemical Name	CAS Number	Upper % Limit
ANTIMONY COMPOUNDS	N/A	5
BARIUM COMPOUNDS	N/A	5

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.

Please call 1-800-527-9919 for additional information if you are a California customer. This MSDS is not intended for use in California.



Section XII - References

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2006.
2. OSHA PEL.
3. VENDOR'S MSDS.
4. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFOWeb, 2006.

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

IRR:IRRITANT, FLAM/FLAMM:FLAMMABLE, TOX:TOXIC, IHL:INHALATION, COMB:COMBUSTIBLE, CORR:CORROSIVE, CARC:CARCINOGENIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED, COC:CLEVELAND OPEN CUP, PMCC:PEMARTIN CLOSED CUP, TCC:TAGLIABUE CLOSED CUP, LEL:LOWER EXPLOSION LIMIT, UEL:UPPER EXPLOSION LIMIT, HMN:HUMAN, IARC:INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NFPA:NATIONAL FIRE PROTECTION ASSOCIATION, ORL:ORAL, NTP:NATIONAL TOXICOLOGY PROGRAM, OSHA:OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV:THRESHOLD VALUE, PEL:PERMISSIBLE EXPOSURE LIMIT, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE, MUT:MUTAGENIC, ASPHYX:ASPHYXIAN, PNOC:PARTICULATES NOT OTHERWISE CLASSIFIED, PNOR:PARTICULATES NOT OTHERWISE REGULATED, PNOS:PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST

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