

E/M CORPORATION -- ESNALUBE 382 (PEN 382) -- 9150-01-328-2552

=====
===== Product Identification =====

Product ID:ESNALUBE 382 (PEN 382)

MSDS Date:06/26/2001

FSC:9150

NIIN:01-328-2552

MSDS Number: CLG XK

=== Responsible Party ===

Company Name:E/M CORPORATION

Address:100 COOPER CIRCLE

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Info Phone Num:770-261-4821

Emergency Phone Num:770-261-4800

Preparer's Name:NOT PROVIDED

Chemtec Ind/Phone:(800)424-9300

CAGE:8F024

=== Contractor Identification ===

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

Contract Num:SP0450-00-M-C153

CAGE:8F024

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-

631-0833

Contract Num:SP0450-00-W-2092

CAGE:8F024

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

Contract Num:SP0450-01-M-C278

CAGE:8F024

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

Contract Num:SP0450-01-M-C409

CAGE:8F024

Company

Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

Contract Num:SP0450-01-M-C599

CAGE:8F024

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

Contract Num:SP0450-01-M-LC46

CAGE:8F024

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address

:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

Contract Num:SP0450-01-M-LD19

CAGE:8F024

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

Contract Num:SP0450-01-M-LG24

CAGE:8F024

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:

30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

Contract Num:SP0450-01-M-LH68

CAGE:8F024

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

Contract Num:SP0450-01-M-LL35

CAGE:8F024

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

Co

ntract Num:SP0450-01-M-LN39
CAGE:8F024
Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC
Address:100 COOPER CIR
Box:3969
City:PEACHTREE CITY
State:GA
ZIP:30269
Country:US
Phone:770-261-4835 / FAX: 770-631-0833
Contract Num:SP0450-01-M-LR28
CAGE:8F024

=====
Composition/Information on Ingredients
=====

Ingred Name:MOLYBDENUM DISULFIDE
CAS:1317-33-5
RTECS #:QA4697000
Minumum % Wt:20.
Maxumum % Wt:30.
Other REC Limits:NOT PROVIDED
OSHA PEL:10 MG/M3 AS MO
ACGIH TLV:10 MG/
M3 AS MO

Ingred Name:NON-IONIC WETTING AGENT
< Wt:1.
Other REC Limits:NOT PROVIDED
OSHA PEL:NO LISTING
ACGIH TLV:NO LISTING

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Minumum % Wt:50.
Maxumum % Wt:60.
Other REC Limits:NOT PROVIDED

Ingred Name:INORGANIC SILICATE COMPOUND (AND CAS # 7732-18-5)
CAS:134-09-8
Minumum % Wt:15.
Maxumum % Wt:25.
Other REC Limits:NOT PROVIDED
OSHA PEL:NO LISTING
ACGIH TLV:NO LISTING

=====
Hazards Identification
=====

LD50

LC50 Mixture:NOT PROVIDED

Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES: CAN CAUSE IRRITATION, REDNESS, BLURRED VISION. SKIN: PROLONGED CONTACT CAN CAUSE IRRITATION, DERMATITIS. INHALATION: CAN CAUSE IRRITATION, DIZZINESS, NAUSEA, FATIGUE, HEADACHE, AND UNCONSCIOUSNESS OR ASPHYXIATION. INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

Explanation

of Carcinogenicity:MOLYBDENUM COMPOUND: NO. NON-IONIC WETTING AGENT: NO.

Effects of Overexposure:EYES: IRRITATION, REDNESS, BLURRED VISION. SKIN: IRRITATION, DERMATITIS. INHALATION: IRRITATION, DIZZINESS, NAUSEA, FATIGUE, HEADACHE, AND UNCONSCIOUSNESS OR ASPHYXIATION. INGESTION: GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

Medical Condition Aggravated by Exposure:NOT PROVIDED

=====
===== First Aid Measures =====

First Aid:EYES:

FLUSH WITH COPIOUS AMOUNTS OF WATER, GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS IMPAIRED, GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. KEEP WARM, GET MEDICAL ATTENTION.

=====
===== Fire Fighting Measures =====

Flash Point:WATER BASED

Extinguishing Media:NOT CONSIDERED A FIRE HAZARD AND DOES NOT SUPPORT COMBUSTION.

Fire Fighting Procedures:NONE

Unusual Fire/Explosion Hazard
:NONE

=====
===== Accidental Release Measures =====

Spill Release Procedures:CLEAN SPILL WITH ABSORBENT MATERIAL. FLUSH WITH LARGE QUANTITIES OF WATER INTO INDUSTRIAL SEWER. CONSULT LOCAL, STATE, AND FEDERAL AUTHORITIES.

Neutralizing Agent:NOT RELEVANT

=====
===== Handling and Storage =====

Handling and Storage Precautions:PROTECT FROM PHYSICAL DAMAGE. STORE IN A COOL , DRY, VENTILATED AREA AWAY FROM ACIDS, ALKALIS, AND OPEN

FLAMES.

Other Precautions:NONE

=====
===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED DUST, FUME, AND MIST
RESPIRATOR IF TWA/TLV LEVELS ARE EXCEEDED.

Ventilation:LOCAL EXHAUST: USE TO MAINTAIN LEVELS BELOW TWA LIMITS.

MECHANICAL: USE CORROSION RESISTANT EQUIPMENT.

Protective Gloves:CHEMICAL RESISTANT GLOVES.

Eye Protection:WEAR SAFETY GLASSES OR GOGGLES.

Other Protective Equipment:NONE

Work Hygienic Practices:NOT PROVIDED

Suppleme

ntal Safety and Health

ABBREVIATION: N/A=NOT APPLICABLE OR NOT AVAILABLE. N/K=UNKNOWN. N/P=NOT
PROVIDED. N/R=NOT RELEVANT. N/D=NOT DETERMINED. N/E=NOT
ESTABLISHED.

=====
===== Physical/Chemical Properties =====

HCC:N1

Boiling Pt:B.P. Text:NOT AVAILABLE

Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:NOT AVAILABLE

Spec Gravity:1.381

pH:NOT PROVIDED

Viscosity:NOT PROVIDED

Evaporation Rate & Reference:NOT AVAILABLE

Solubi

lity in Water:COMPLETE

Appearance and Odor:GRAY/ BLACK LIQUID

Percent Volatiles by Volume:NOT PROVIDED

Corrosion Rate:NOT PROVIDED

=====
===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:IRRITATING AND/OR TOXIC FUMES

INCLUDING SODIUM, BORON, PHOSPHORUS, SILICON, AND SULFUR COMPOUNDS
MAY BE RELEASED.

=====
===== Toxicological Inform

ation =====

Toxicological Information:MOLYBDENIUM COMPOUNDS MAY BE SLIGHTLY IRRITATING. CARCINOGENICITY: NTP= NO, IARC= NO, OSHA=NO. NON-IONIC WETTING AGENT IN CONCENTRATED FORM IS A SEVERE EYE IRRITANT AND MODERATE SKIN IRRITANT. CARCINO GENICITY: NTP= NO, IARC= NO, OSHA= NO. THIS ORGANIC BINDER IS A SKIN AND SEVERE EYE IRRITANT AND CAUSES GASTROINTESTINAL TRACT UPSET FROM INGESTION. THE ORAL LD50 (RAT) FOR THIS BINDER IS 1280 MG/KG. CARCINOGENICITY: NTP= NO, IATA= NO, OSHA= NO.

===== Ecological Information =====

Ecological:NOT PROVIDED

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF WASTE IN A CHEMICAL LANDFILL AS APPROVED BY CURRENT, LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.

===== MSDS Transport Information =====

Transport Information:NOT PROVIDED

===== Regulatory Information =====
=====

SARA Title III Information:NOT PROVIDED
Federal Regulatory Information:NOT PROVIDED
State Regulatory Information:NOT PROVIDED

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims a

It liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.