

TECHNOLUBE PRODUCTS COMPANY -- 19012, MIL-H-46170B AM2 TYPE 2 #HF-38 --  
9150-01-131-3324

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

Product ID:19012, MIL-H-46170B AM2 TYPE 2 #HF-38

MSDS Date:04/07/2000

FSC:9150

NIIN:01-131-3324

Status Code:A

MSDS Number: CLDMJ

=== Responsible Party ===

Company Name:TECHNOLUBE PRODUCTS COMPANY

Address:8015 PARAMOUNT BLVD

City:PICO RIVERA

State:CA

ZIP:90660

Country:US

Info Phone Num:562-776-4000

Emergency Phone Num:(800)424-9300

Pr

eparer's Name:RON DICKENSON, SAFETY MGR

Chemtre Ind/Phone:(800)424-9300

CAGE:UO108

=== Contractor Identification ===

Company Name:LUBRICATING SPECIALTIES CO. TECHNOLUBE PRODUCTS DIV

Address:3365 E. SLAUSON AVE

Box:City:LOS ANGELES

State:CA

ZIP:90058

Country:US

Phone:562-776-4033; FAX:562-776-4003

Contract Num:SP0450-01-M-LG05

CAGE:8Y842

Company Name:TECHNOLUBE PRODUCTS COMPANY

Address:8015 PARAMOUNT BLVD

Box:City:PICO RIVERA

State:CA

ZIP:90660

Country:US

Phone:562-776-4000

CAGE:UO108

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

Ingred Name:1-DECENE, HOMOPOLYMER, HYDROGENATED  
CAS:68037-01-4  
&lt; Wt:80.

Ingred Name:HEXANEDIOIC ACID, DIISONONYL ESTER  
CAS:33703-08-1  
&lt; Wt:20.

Ingred Name:1,2-BENZENEDICARBOXYLIC ACID, DI-C8-10-BRANCHED ALKYL  
ESTERS  
CAS:68515-48-0  
&lt; Wt:20.

Ingred Name:T-BUTYLPHENYL DIPHENYL PHOSPHATE  
&lt; Wt:5.

Ingred Name:DI-TERT-BUTYL-4-HYDROXYHYDROCINNAMATE  
CAS:41484-35-9  
RTECS #:DA8342500  
&lt; Wt:1.

Ingred Name:TOLYLTRIAZOLE  
CAS:2  
9385-43-1  
RTECS #:DM1300000  
&lt; Wt:1.

Ingred Name:BARIUM DINONYLNAPHTHALENESULFONATE  
CAS:25619-56-1  
&lt; Wt:5.

Ingred Name:DIMETHYLBENZENE  
CAS:1330-20-7  
RTECS #:ZE2100000  
&lt; Wt:1.  
ACGIH TLV:434 MG/M3;100 PPM  
ACGIH STEL:651 MG/M3;150 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:CONTAINS NO OTHER INGREDIENTS NOW KNOWN TO BE HAZARDOUS AS  
DEFINED BY OSHA 29 CFR 1910.1000(Z).

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

LD50 LC50 Mixture:NOT PROVIDED B

Y MFR

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:TARGET ORGANS: EYE, SKIN, RESPIRATORY & GI TRACTS. EYE: MAY CAUSE EYE IRRITATION IF SPLASHED INTO EYES. SKIN: REPEATED OR PROLONGED CONTACT WITH SKIN MAY CUASE IRRITATION WHICH MAY LEAD TO VARIOUS SKI N DISORDERS. AVOID PROLONGED SKIN CONTACT. INHALATION: INHALATION OF VAPOR OR OIL MIST FROM THIS PRODUCT MAY CAUSE MILD IRRITATION OF THE RESPIRATORY SYSTEM. USE IN WELL VENTILATED AREA. ORAL: INGESTI ON MAY CAUSE NAUSEA, DIARRHEA, AND STOMACH DISCOMFORT.

Explanation of Carcinogenicity:THIS MATERIAL HAS NOT BEEN IDENTIFIED AS A CARCINOGEN BY NTP, IARC, OR OSHA.

Effects of Overexposure:ORAL: INGESTION MAY CAUSE NAUSEA, DIARRHEA, AND STOMACH DISCOMFORT.

Medical Cond Aggravated by Exposure:NOT PROVIDED BY MFR

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

First Aid:ORAL: DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE 2 GLASSES OF WATER. GET IMMEDIATE MEDICAL ATTENTION. EYE: FLUSH WITH WATER AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF EYE IRRITATION DEVELOPS OR PER SISTS. SKIN: WASH IMMEDIATELY WITH SOAP AND WATER. REMOVE SOILED CLOTHING. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS. LAUNDER CONTAMINATED CLOTHING. INHALATION: REMOVE EXPOSED PERSON TO FRESH AIR. IF BREATHING IS LABORED, ADMINISTER OXYGEN AND OBTAIN IMMEDIATE MEDICAL ATTENTION. IF IRRITATION PERSISTS OR TOXIC SYMPTOMS ARE OBSERVED, GET MEDICAL ATTENTION.

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

Flash Point Method:COC

Flash Point:>200.C, 392.F

Lower Limits:NOT PROVIDED

Upper Limits:NOT PROVIDED

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, OR FOAM. AVOID USING WATER.

Fire Fighting Procedures:RECOMMEND SCBA. USE WATER ONLY FOR COOLING CONTAINER. WATER MAY CAUSE SPLATTERING, OR TRANSPORT THE FLAME.

Unusual Fire/Explosion Hazard:COMBUS

TIBLE LIQUID. SLIGHTLY COMBUSTIBLE.

MAY RELEASE FLAMMABLE VAPORS WHEN HEATED ABOVE FLASH POINT.

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

Spill Release Procedures:EVACUATE ALL NON-ESSENTIAL PERSONNEL. PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN. REMOVE SOURCES OF IGNITION. PREVENT ENTRY INTO SEWERS AND WATERWAYS. CONTAIN RELEASE, PICK UP FREE LIQUID FOR RECYCLIN G OR DISPOSAL. RESIDUAL LIQUID CAN BE ABSORBED WITH INERT MATERIAL CHECK DOT/CERCLA AND

OTHER AGENCIES

FOR REPORTING REQUIREMENTS. PREVENT CONTAMINATION TO SOIL, WATERWAYS, AND SEWER SYSTEMS.

Neutralizing Agent:NOT PROVIDED BY MFR

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

Handling and Storage Precautions:HANDLING: AVOID PROLONGED SKIN CONTACT, BREATHING VAPORS, AND CONTAMINATED CLOTHING. USE WITH ADEQUATE VENTILATION. WEAR RECOMMENDED PROTECTIVE EQUIPMENT. PRACTICE GOOD PERSONAL HYGIENE AFTER HANDLING . EMPTY CONTAINERS RETAIN MAT

ERIAL RESIDUE.

Other Precautions:DO NOT CUT, WELD, BRAZE, SOLDER OR EXPOSE CONTAINERS TO OTHER IGNITION SOURCES.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE AND DUST/MIST CARTRIDGE IS RECOMMENDED EXPOSURE LIMIT IS EXCEEDED. SELF CONTAINED BREATHING APPARATUS IS RECOMMENDED FOR CONFINED SPACE ENTRY.

Ventilation:USE IN AREAS OF ADEQUATE VENTILATION. USE MECHANICAL E

XHAUST TO CONTROL VAPORS OR MISTS.

Protective Gloves:USE NITRILE OR NEOPRENE GLOSES ARE RECOMMENDED.

Eye Protection:SAFETY GLASSES, GOGGLES OR FACE SHIELD ARE RECOMMENDED.

Other Protective Equipment:LONG SLEEVE SHIRT AND APRON WHEN POTENTIAL FOR SKIN CONTACT. WEAR NEOPRENE OR NITRILE RUBBER BOOTS WHEN NECESSARY TO AVOID CONTAMINATING SHOES.

Work Hygienic Practices:NOT PROVIDED BY MFR

Supplemental Safety and Health

NOT PROVIDED BY MFR

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

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HCC:V6  
Boiling Pt:>300.C, 572.F  
Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED BY MFR  
Decomp Temp:Decomp Text:NOT PROVIDED BY MFR  
Vapor Pres:< 0.01 MM HG @ 20 DEG C  
Vapor Density:> AIR  
Spec Gravity:0.872  
pH:N/D  
Viscosity:NOT PROVIDED BY MFR  
Evaporation Rate & Reference:LESS THAN ETHER  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:RED OILY LIQUID, PETROLEUM ODOR  
Percent Volatiles by Volume:NOT PROVIDED  
Corrosion Rate:NOT PROVIDED BY MFR

===== Stability and Reacti  
vity Data =====

Stability Indicator/Materials to Avoid:YES  
OXIDIZING AGENTS  
Stability Condition to Avoid:MATERIAL IS NORMALLY STABLE AT AMBIENT  
TEMPERATURE AND PRESSUSE. DO NOT HEAT ABOVE THE FLASH POINT.  
Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE  
Conditions to Avoid Polymerization:WILL NOT OCCUR

===== Toxicological Information =====

Toxicological Information:ORAL TOXICITY: SWALLOWING MATRIAL MAY CAUSE  
IRRITATION OF THE G  
ASTROINTESTINAL LINING, NAUSEA, VOMITING,  
DIARRHEA, AND ABDOMINAL PAIN. EYE IRRITATION: NOT EXPECTED TO  
CAUSE EYE IRRITATION. SKIN IRRI TATION: NOT EXPECTED TO BE A  
PRIMARY SKIN IRRITANT. PROLONGED OR REPETITIVE CONTACT MAY CAUSE  
IRRITATION.

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

Ecological:THIS MATERIAL IS EXPECTED TO HAVE ADVERSE AFFECTS ON MARINE  
AND PLANT LIFE. SPILLS MAY CONTAMINATE DRINKING WATER.

===== Disposal Consid

erations =====

Waste Disposal Methods:CONSULT FEDERAL, STATE, AND LOCAL REGULATIONS  
REGARDING DISPOSAL METHODS, RECYCLE USED OIL. DO NOT CONTAMINATE  
USED OIL WITH SOLVENTS OR OTHER CHEMICALS.

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

Transport Information:DOT SHIPPING NAME: OIL, NOS. DOT HAZARD CLASS:  
COMBUSTIBLE LIQUID. UN/NA NUMBER: NA. GUIDE NUMBER: 27. IMDG  
CODE: MATERIALS CLASSIFIED AS DOT COMBUSTIBLE LIQUIDS (FLASH POINT

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