

MOBIL OIL CORP, AMERICAS MARKETING AND REFINING -- MOBIL DTE OIL HEAVY MEDIUM --  
9150-01-461-1142

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

Product ID:MOBIL DTE OIL HEAVY MEDIUM

MSDS Date:06/19/1999

FSC:9150

NIIN:01-461-1142

Status Code:A

MSDS Number: CLNGK

=== Responsible Party ===

Company Name:MOBIL OIL CORP, AMERICAS MARKETING AND REFINING

Address:3225 GALLOWS ROAD

City:FAIRFAX

State:VA

ZIP:22037

Coun

try:US

Info Phone Num:800-662-4525/ 856-224-4644

Emergency Phone Num:(800)424-9300

Resp. Party Other MSDS Num.:600163-00

Chemtrec Ind/Phone:(800)424-9300

CAGE:3U728

=== Contractor Identification ===

Company Name:MOBIL OIL CORP, NORTH AMERICAS MARKETING AND REFINING

Address:3225 GALLOWS ROAD

Box:City:FAIRFAX

State:VA

ZIP:22037

Country:US

Phone:800-662-4525/ 856-224-4644

CAGE:3U728

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

Ingred Name:TRICRESYL PHOSPHATE

CAS:1330-78-5

RTECS #:TD0175000

> Wt:4.

Ingred Name:ZINC (ELEMENTAL ANALYSIS)

CAS:7440-66-6

RTECS #:ZG8600000

< Wt:.01

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:PHOSPHORODITHIOIC ACID, O,O-DI-C1-14-ALKYL ESTERS, ZINC  
SALTS (:1) (ZDDP)

CAS:68649-42-3

= Wt:.09

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

Health Hazards Acute and Chronic:NO SIGNIFICANT EFFECTS EXPECTED.

Effects of Overexposure:NO SIGNIFICANT EFFECTS EXPECTED.

asures =====

First Aid:EYE: FLUSH THOROUGHLY WITH WATER. IF IRRITATION OCCURS, CALL A PHYSICIAN. SKIN: WASH CONTACT AREA WITH SOAP AND WATER. INHALATION: NOT EXPECTED TO BE A PROBLESM. INGESTION: NOT EXPECTED TO BE A PROBLE M. HOWEVER, IF GREATER THAN 1/2 LITER (PINT) INGESTED, SEEK MEDICAL ATTENTION.

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

Flash Point Method:COC  
Flash Point:>204.C, 399.2F  
Autoignition Temp:Autoignition Temp Tex  
t:NE  
Lower Limits:NA  
Upper Limits:NA  
Extinguishing Media:CARBON DIOXIDE, FOAM, DRY CHEMCAL AND WATER FOG.  
Fire Fighting Procedures:FOR FIRES IN ENCLOSED AREAS, FIRE FIGHTERS MUST USE SELF-CONTAINED BREATHING APPARATUS.  
Unusual Fire/Explosion Hazard:NONE: WATER OR FOAM MAY CAUSE FROTHING. USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURE. PREVENT RUNOFF FROM FIRE CONTROL OR DILUTION FROM ENTERING STREAMS, SEWERS, OR DRINKING WATER SUPPLY.

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

Spill Release Procedures:REPORT SPILLS AS REQUIRED TO APPROPRIATE AUTHORITIES. ABSORB ON FIRE RETARDANT TREATED SAWDUST, DIATOMACEOUS EARTH, ETC. SHOVEL UP AND DISPOSE OF AT AN APPROPRIATE WASTE DISPOSAL FACILITY IN ACCORDANCE WITH CURRENT APPLICABLE LAWS AND REGULATIONS, AND PRODUCT CHARACTERISTICS AT TIME OF DISPOSAL.

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

Handling and Storage Precautions:HANDLING-NO SPECIAL PRECAUTIONS ARE NECESSARY BEYOND NORMAL GOOD HYGIENE PRACTICES. STORAGE-DO NOT STORE IN OPEN OR UNLABELLED CONTAINERS. STORE AWAY FROM STRONG OXIDIZING AGENTS OR COMBUSTIBLE MATERIAL. ENVIRONMENTAL PRECAUTIONS-PREVENT SPILL FROM ENTERING STORM SEWERS OR DRAINS OR SOIL.  
Other Precautions:NOTIFICATION PROCEDURES-REPORT SPILLS AS REQUIRED TO APPROPRIATE AUTHORITIES. U S COAST GUARD REGULATIONS REQUIRE IMMEDIATE REPORT

ING OF SPILLS THAT CAN REACH ANY WATERWAY INCLUDING  
INTERMITTENT DRY CREEKS. REPORT SPILL TO COAST GUARD TOLL FREE @  
800-424-8802. FOR ACCIDENT OR ROAD SPILL NOTIFY CHE MTREC  
800-424-9300.

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

Respiratory Protection:NO SPECIAL REQUIREMENTS UNDER ORDINARY  
CONDITIONS OF USE AND WITH ADEQUATE VENTILATION.

Ventilation:NO SPECIAL REQUIREMENTS UNDER ORDINARY CONDITIONS OF USE  
WITH ADEQUATE VENTILATION.

Protective

Gloves:NO SPECIAL EQUIPMENT REQUIRED.

Eye Protection:NORMAL INDUSTRIAL EYE PROTECTION SHOULD BE EMPLOYED.

Work Hygienic Practices:GOOD PERSONAL HYGIENE PRACTICES SHOULD ALWAYS  
BE FOLLOWED.

Supplemental Safety and Health

CHEMICAL NAMES & SYNONYMS: PET. HYDROCARBONS & ADDITIVES INGREDIENTS  
CONSIDERED HAZARDOUS TO HEALTH:THIS PRODUCT IS NOT FORMULATED TO  
CONTAIN INGREDIENTS WHICH HAVE EXPOSURE LIMITS ESTABLISHED BY U.S.  
AGENCIES. IT IS NOT HAZARDOUS TO HEALTH AS DEFINED BY THE EURO

PEAN

UNION DANGEROUS SUBSTANCES/PREPARATIONS DIRECTIVES.

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

HCC:V6

Boiling Pt:>316.C, 600.8F

Melt/Freeze Pt:M.P/F.P Text:NA

Vapor Pres:2.0

Viscosity:68.0 CST @ 40 C

Evaporation Rate & Reference:NE

Solubility in Water:NEGLIGIBLE

Appearance and Odor:AMBER COLORED LIQUID, MILD ODOR

Percent Volatiles by Volume:NA

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS.

Stability Condition to Avoid:EXTREME HEAT.

Hazardous Decomposition Products:CARBON MONOXIDE. ELEMENTAL OXIDES.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:ORAL TOXICITY (RATS): PRACTICALLY NON-TOXIC  
(LD50: > 2000MG/KG). --BASED ON TESTING OF SIMILAR PRODUCTS &/OR  
COMPONENTS.DERMAL TOXICITY (RABBITS):PRACTICALLY NON-TOXIC (LD50:  
>2000 MG/KG). --BASED O N TESTING OF

SIMILAR PRODUCTS &/OR

COMPONENTS. INHALATION TOXICITY (RATS): NOT APPLICABLE --HARMFUL  
CONCENTRATIONS OF MISTS &/OR VAPORS ARE UNLIKELY TO BE ENCOUNTERED  
THROUGH ANY CUSTOMARY OR REASONABLY FORESEEABLE HANDLING, USE, OR  
MISUSE OF THIS PRODUCT. EYE IRRITATION (RABBITS): PRACTICALLY  
NON-IRRITATING. (DRAIZE SCORE: 0 OR > BUT 6 OR 0.04%) ,  
1330-78-5; ZINC (ELEMENTAL ANALYSIS) (