

UNIMARK OIL CO LLC -- GARDFLEET SAE 15W-40 -- 9150-01-351-9018

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

Product ID:GARDFLEET SAE 15W-40
MSDS Date:03/24/1998
FSC:9150
NIIN:01-351-9018
Status Code:A
MSDS Number: CKZWY
=== Responsible Party ===
Company Name:UNIMARK OIL CO LLC
Address:2727 ROE LANE
City:KANSAS CITY
State:KS
ZIP:66103-1543
Country:US
Info Phone Num:913-236-5000 FAX/913-432-8309
Emergency Ph
one Num:913-236-5000
Preparer's Name:MICHAEL S. MCLEMORE
Chemtrec Ind/Phone:(800)424-9300
CAGE:1RU67

=== Contractor Identification ===

Company Name:UNIMARK OIL CO LLC
Address:2727 ROE LANE
Box:City:KANSAS CITY
State:KS
ZIP:66103-1543
Country:US
Phone:913-236-5000 FAX/913-432-8309
CAGE:1RU67

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

Ingred Name:HYDROTREATED PARAFINNIC DISTILLATES
Minumum % Wt:80.
Maxumum % Wt:90.
OSHA PEL:5 MG/M3 OIL MIST
ACGIH TLV:5 MG/M3 OIL MIST
AC

GIH STEL:10 MG/M3 OIL MIST

Ingred Name:PROPRIETARY ADDITIVES

Minumum % Wt:10.

Maxumum % Wt:20.

OSHA PEL:5 MG/M3 OIL MIST

ACGIH TLV:5 MG/M3 OIL MIST

ACGIH STEL:10 MG/M3 OIL MIST

Ingred Name:ZINC SALTS OF DIALKYL DITHIOPHOSPHORIC ACID

CAS:68649-42-3

< Wt:.5

OSHA PEL:5 MG/M3 OIL MIST

ACGIH TLV:5 MG/M3 OIL MIST

ACGIH STEL:10 MG/M3 OIL MIST

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

LD50 LC50 Mixture:NOT PROVIDED

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

Hea

lth Hazards Acute and Chronic:EYE :NOT EXPECTED TO CAUSE IRRITATION.

MAY CAUSE MILD DISCOMFORT. SKIN:NOT EXPECTED TO CAUSE IRRITATION.

PROLONGED CONTACT MAY LEAD TO AN ALLERGIC SKIN SENSITIZATION.

INHALATION: VAPORS FROM HOT MATER IAL MAY CAUSE NON-SPECIFIC

DISCOMFORT. INGESTION: RELATIVELY NON-TOXIC UNLESS LUNG ASPIRATION

OCCURS. ASPIRATION MAY LEAD TO CHEMICAL PHEUMONITIS.

Explanation of Carcinogenicity:NOT DETERMINED.

Effects of Overexposure:EYES:TEARING, OR BLURRING OF V

ISION. SKIN:

IRRITATION, ALLERGIC SENSITIZATION (REDDENING OF SKIN & IRRITATION)

INHALATION: NAUSEA, HEADACHE. INGESTION:ABDOMINAL CRAMPS, DIARRHEA.

APIRATION INTO LUNGS IS CHARACTERIZED BY PULMONARY EDEMA,

HEMORRHAGE, DEATH, INCREASED RESPIRATORY RATE, INCREASED HEART

RATE, BLUISH DISCOLORATION OF THE SKIN,

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES: FLUSH WITH WA

TER FOR 15 MINUTES WHILE HOLDING EYELIDS
OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING.
WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL
ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET
MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING DUE TO
ASPIRATION HAZARD. IMMEDIATELY GIVE 2 GLASSES OF WATER. NEVER GIVE
ANYTHING BY MOUTH IF UNCONSCIOUS. IF VOMITING OCCURS, LOWER HEAD
BELOW KNEES TO AVOID ASPIRATION. SEEK IMMEDIATE MEDICAL HELP.

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

Flash Point Method:COG
Flash Point:=-240.6C, 465.F
Lower Limits:NOT DETERM
Upper Limits:NOT DETERM
Extinguishing Media:USE DRY CHEMICAL, FOAM, WATER FOG, CARBON DIOXIDE.
Fire Fighting Procedures:WATER MAY BE INEFFECTIVE BUT MAY BE USED TO
COOL CONTAINERS EXPOSED TO HEAT OR FLAME. CAUTION SHOULD BE
EXERCISED WHEN USING WATER OR FOAM AS FROTHING MAY OCCUR.
Unusual Fire/Explosion Hazard:DENSE SMOKE MAY BE
GENERATED WHILE
BURNING. TOXIC FUMES, GASES OR VAPORS MAY EVOLVE ON BURNING. HEAVY
FLAMMABLE VAPORS MAY TRAVEL TO LOW AREAS AND IGNITE.

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

Spill Release Procedures:IMMEDIATELY TURN OFF ANY SOURCE OF IGNITION.
EVACUATE AREA AND VENTILATE. CONTAIN MATERIAL WITH INERT MATERIAL
AND COLLECT IN SUITABLE CONTAINERS FOR DISPOSAL. PREVENT MATERIAL
FROM ENTERING SEWERS OR WATERWAYS. IF A LARGE SPILL OCCURS NOTIFY
APPROPRIATE AUTHORITIES.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP CONTAINERS CLOSED WHEN NOT IN
USE. DO NOT TRANSFER TO UNMARKED CONTAINERS. FIRE EXTINGUISHERS
SHOULD BE KEPT READILY AVAILABLE.
Other Precautions:SEE NFPA 30 AND OSHA 1910.106--FLAMMABLE AND
COMBUSTIBLE LIQUIDS. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE WHICH
MAY EXHIBIT HAZARDS OF MATERIAL, THEREFOR

E DO NOT PRESSURIZE, CUT,
GLAZE, WELD OR USE FOR ANY OTHER PURPOSES.

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

Respiratory Protection:NONE REQUIRED IF AIRBORNE CONCENTRATIONS ARE MAINTAINED BELOW THRESHOLD LIMITS. OTHERWISE A RESPIRATORY PROTECTION PROGRAM MEETING OSHA REQUIREMENTS MUST BE FOLLOWED. WHERE MISTING MAY OCCUR, WEAR AN MSHA/NIOSH APPROVE HALF-MASK FORM DUST/ MIST AIR-PURIFYING RESPIRATOR.

Ventilation:LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION AS REQUIRED TO MAINTAIN EXPOSURE LEVELS.

Protective Gloves:NEOPRENE OR NITRILE RUBBER.

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE. DISCARD CONTAMINATED LEATHER ARTICLES.

Supplemental Safety and Health
CONSUMPTION OF FOOD AND DRINK SHOULD BE AVOIDED IN WORK AREAS WHERE PRODUCT IS PRESENT.

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

HCC:V6

Boiling Pt:B.P. Text:NOT GIVEN

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

Vapor Pres:NEGLIGIBLE

Vapor Density:> 1

Spec Gravity:0.889

Evaporation Rate & Reference:NEGLIGIBLE

Solubility in Water:NEGLIGIBLE

Appearance and Odor:DARK BROWN, CLEAR FLUID, MILD PETROLEUM HYDROCARBON
ODOR

Percent Volatiles by Volume:NIL

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH ACIDS AND OXIDIZING MATERIALS.

Stability Condition to Avoid:AVOID HIGH TEMPERATURES AND PRODUCT CONTAMINATION.

Hazardous Decomposition Products:OXIDES OF CARBON ZINC, CALCIUM, MAGNESIUM, PHOSPHORUS AND SULFUR, HYDROGEN SULFIDE, ALKYL MERCAPTANS, OTHER SULFIDES.

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

on =====

Toxicological Information:ORAL AND DERMAL TOXICITY: NOT DETERMINED.
INHALATION TOXICITY: ON RARE OCCASIONS, PROLONGED AND REPEATED EXPOSURE TO ALL MISTS POSES A RISK OF PULMONARY DISEASE SUCH AS CHRONIC LUNG INFLAMMATION. DERMAL SENSITIZATION: PROLONGED OR REPEATED CONTACT MAY MAKE SKIN MORE SENSITIVE TO OTHER SENSITIZERS.
MUTAGENICITY: THIS PRODUCT CONTAINS ZINC ALKYL DITHIOPHOSPHATES (ZDP). SEVERAL ZDPS HAVE BEEN REPORTED TO HAVE WEAK MUTAGENICITY
ACTIVITY IN CULTURED MAMMALIAN CELLS BUT ONLY AT CONCENTRATIONS THAT WERE TOXIC TO THE TEST CELLS.

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

Ecological:THIS MATERIAL MAY BE TOXIC TO AQUATIC ORGANISMS AND SHOULD BE KEPT OUT OF SEWAGE AND DRAINAGE SYSTEMS AND ALL BODIES OF WATER.
ENVIRONMENT FATE: NO DATA AVAILABLE.

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

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. UNDER RCRA IT IS THE RESPONSIBILITY OF THE USER OF THE PRODUCT TO DETERMINE AT THE TIME OF DISPOSAL WHETHER THE PRODUCT MEETS RCRA CRITERIA FOR HAZARDOUS WASTE.

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

Transport Information:NOT REGULATED BY DOT.

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

SARA Title III Information:CLEAN WATER ACT/OIL POLLUTION ACT: UNDER SECTION 311 OF CWA (40CFR 110) 7 OIL POLLUTION ACT OF 1990, THIS MATERIAL IS CONSIDERED AN OIL. ANY SPILL OR DISCHARGES THAT PRODUCE A VISIBLE SHEEN OR FILM ON SURFACE OF WATER, OR IN WATERWAYS, DITCHES OR SEWERS LEADING TO SURFACE WATER MUST BE REPORTED. CONTACT NRC AT 800-424-8802. SEC 313 TOXIC CHEMICALS: ZN