

UNIMARK OIL CO LLC -- GARDFLEET SAE 40 -- 9150-01-422-9247

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

Product ID:GARDFLEET SAE 40
MSDS Date:03/24/1998
FSC:9150
NIIN:01-422-9247
Status Code:A
MSDS Number: CKZWH
=== 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 Phone Nu
m: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
ACGIH ST

EL: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 DIALKYLDITHIOPHOSPHORIC 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

Health Ha

zards 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 VISION.

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 WATER FO

R 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, THEREFORE DO NOT

OT 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.
LAUNDER CONTAMINATED CLOTHES BEFORE REUSE. DISCARD CONTAMINA
TED

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 HYDROCARBO
N

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 =====

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Toxicological Information:ORAL AND DERMAL TOXICIRY: 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. DERM AL 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 REPORTE D 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
F
EDERAL, STATE, AND LOCAL REGULATIONS. UNDER RCRA IT IS THE
RESPONSIBILITY OF THE USER OF THE PRODUCT TO DTERMINE 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 SEC
311 OF CWA (40CFR 110) 7 OI
L POLLUTION ACT OF 1990, THIS MATERIAL
IS CONSIDERED AN OIL. ANY SPILL OR DISCHARGES THAT PRODUCE A
VISIBLE SHEEN OR FILM ON SUR FACE OF WATER, OR IN WATERWAYS, DICHES
OR SEWERS LEADING TO SURFACE WATER MUST BE REPORTED. CONTACT NRC AT
800-424-8802. SEC 313 TOXIC CHEMICALS: ZN