

UNIMARK OIL CO LLC -- GARDGEAR MIL-PRF-2105E GEAR OIL SAE 80W-90, MG-2065 --  
9150-01-035-5394

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

Product ID:GARDGEAR MIL-PRF-2105E GEAR OIL SAE 80W-90, MG-2065

MSDS Date:08/14/1998

FSC:9150

NIIN:01-035-5394

Status Code:A

MSDS Number: CKYHB

=== 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 Num:913-236-5000

Resp. Party Other MSDS Num.:FILE: M2105E80W90

Preparer's Name:MICHAEL 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

Company Name:UNIMARK OIL COMPANY (FORMERLY GARD OIL)

Address:2727 ROE LANE

City:KANSAS CITY

State:KS

ZIP

:66103-1543

Country:US

Phone:913-236-5000; FX 913-236-4419

Contract Num:SPO-450-98-D-4042

CAGE:3K676

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

Ingred Name:HYDROTREATED PARAFFINIC DISTILLATES

Minumum % Wt:85.

Maxumum % Wt:95.

OSHA PEL:5 MG/M3 (OIL MIST)

OSHA STEL:10 MG/M3 (OIL MIST)

ACGIH TLV:5 MG/M3 (OIL MIST)

Ingred Name:PROPRIETARY ADDITIVES

Minumum % Wt:5.

Maxumum % Wt:15.

OSHA PEL:5 MG/M3 (OIL MIST)

OSHA STEL:10 MG/M3 (OIL MIST)

ACGIH TLV:5 MG/M3 (OIL MIST)

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

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

Health Hazards Acute and Chronic:EYE-THIS PRODUCT IS NOT EXPECTED TO CAUSE EYE IRRITATION. AVOID PROLONGED CONTACT WHICH MAY CAUSE MILD EYE DISCOMFORT. SKIN-THIS PRODUCT IS NOT EXPECTED TO CAUSE SKIN IRRITATION. INHALATION- OVEREXPOS URE BY INHALATION OF HOT MATERIAL MAY CAUSE NON-SPECIFIC DISCOMFORT. CAUTION SHOULD BE TAKEN TO PREVENT FORMING AEROSOL/MISTIN

G OF PRODUCT WITHOUT PROPER RESPIRATORY PROTECTION. INGESTION-DO NOT INGES T. DUE TO THE EXPECTED CONCENTRATION OF OIL (70-100%) INGESTION IS EXPECTED TO BE RELATIVELY NON-TOXIC UNLESS LUNG ASPIRATION OCCURS. ASPIRATION MAY LEAD TO CHEMICAL PNEUMONITIS WHICH IS SHOWN BY PUL MONARY EDMA/HEMORRHAGE & MAY BE FATAL.

Explanation of Carcinogenicity:NONE OF THE OILS REQUIRES A CANCER WARNING UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). THESE OILS HAVE NO

T BEEN LISTED BY THE NTP NOR HAVE  
THEY BEEN CLASSIFIED BY IARC AS; CARCINO GENIC TO HUMANS (GROUP 1),  
PROBABLY CARCINOGENIC TO HUMANS (GROUP 2A), OR POSSIBLY  
CARCINOGENIC TO HUMNAS (GROUP 2B).

Effects of Overexposure:EYES: MAY CAUSE TEARING OR BLURRING OF VISION.  
SKIN: DRYNESS, CHAPPING & REDDENING OF SKIN. INHALATION: NAUSEA,  
HEADACHE, OR WEAKNESS. INGESTION: SIGNS OF LUNG INVOLVEMENT INCLUDE  
INCREASED RESPIRATORY RATE, INCREASED HEART RATE, & A  
BLUISHDISCOLORATION

OF THE SKIN. COUGHING, CHOKING, & GAGGING ARE  
OFTEN NOTED AT THE TIME OF ASPIRATION. VOMITING WITH A FUTHER RISK  
OF ASPIRATION. GASTROINTESTINAL DISCOMFORT MAY DEVELOP, FOLLOWED  
BY VOMITING WITH A FURTHER RISK OF ASPIRATION. THIS PRODUCT HAS  
LAXATIVE PROPERTIES & MAY RESULT IN ABDOMINAL CRAMPS & DIARRHEA.

Medical Cond Aggravated by Exposure:PROLONGED OR REPEATED CONTACT MAY  
CAUSE ALLERGIC SKIN REACTION IN SOME PEOPLE AND DERMATITIS.

===== First Aid Measur  
es =====

First Aid:EYES-IMMEDIATELY FLUSH WITH WATER, CONTINUE FLUSHING UNTIL  
IRRITATION SUBSIDES. IF IRRITATION PERSISTS, CALL PHYSICIAN. IF  
MATERIAL IS HOT, TREAT FOR THERMAL BURNS & TAKE TO HOSPITAL  
QUICKLY. SKIN-REMOVE CONTAMINATED CLOTHES. WASH CONTAMINATED AREA  
WITH SOAP & WATER. IF REDNESS OR IRRITATION OCCURS, SEEK MEDICAL  
AID. IF PRODUCT IS HOT, SUBMERGE INJURED AREA INTO COLD WATER. IF  
SEVERLY BURNED, GET TO HOSPITAL QUICKLY! INHALATION-RE

MOVE TO

FRESH AIR. APPLY ARTIFICIAL RESPIRATION/OXYGEN IF NEEDED. DO NOT  
LEAVE VICTIM UNATTENDED. ORAL-DO NOT INDUCE VOMITING! GIVE 1-2  
GLASSES WATER. NOTHING BY MOUTH IF UNCONSCIOUS. SEEK MEDICAL AID.

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

Flash Point Method:COC

Flash Point:=277.C, 530.6F

Lower Limits:N/D

Upper Limits:N/D

Extinguishing Media:USE DRY CHEMICAL, FOAM, WATER FOG OR CARBON  
DIOXIDE.

Fire Fighting Procedures:WATER MAY BE INEFFECTIVE BUT

CAN BE USED TO

COOL CONTAINERS EXPOSED TO HEAT OR FLAME. CAUTION SHOULD BE EXERCISED WHEN USING WATER OR FOAM AS FROTHING AND SPLATTERING MAY OCCUR, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.

Unusual Fire/Explosion Hazard:DENSE SMOKE MAY BE GENERATED WHILE BURNING. TOXIC FUMES, GASES OR VAPORS MAY EVOLVE ON BURNING, HEAVY FLAMMABLE VAPORS MAY SETTLE ALONG GROUND LEVEL AND LOW SPOTS TO CREATE AN INVISIBLE FIRE HAZARD. T HE VAPORS MAY EXTEND TO SOURCES OF IGNITION AND FLASH BACK.

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

Spill Release Procedures:IMMEDIATELY TURN OFF OR ISOLATE ANY SOURCES OF IGNITION. EVACUATE AREA & VENTILATE. PERSONNEL IN PROPER PROTECTIVE EQUIPMENT SHOULD CONTAIN SPILL IMMEDIATELY WITH INERT MATERIALS BY FORMING DIKES. DIKES SHOULD BE PLACED TO CONTAIN SPILL IN A MANNER THAT WILL PREVENT MATERIAL FROM ENTERING SEWERS & WATERWAYS. "SEE OTHER INFORMATION"

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED WHEN NOT IN USE. DON'T TRANSFER TO UNMARKED CONTAINER. FIRE EXTINGUISHERS SHOULD BE KEPT READILY AVAILABLE. SEE NFPA 30/OSHA 1910.105. EMPTY CANS RETAIN PRODUCT RESIDUE WHICH MAY EXHIBIT HAZARDS OF MATERIALS, THEREFORE DO NOT PRESSURIZE, CUT, GLAZE, WELD OR USE FOR ANY PURPOSE.

Other Precautions:RETURN DRUMS TO RECLAMATION CENTERS FOR PROPER CLENGING AND REUSE. S  
TORE CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAMES, OR OXIDIZING MATERIALS. \*NFPA 704: HEALTH=1, FIRE=1, REACTIVITY=0, SPECIFIC HAZARD=NONE, PROTECTION INDEX=N/A.  
NPCA-HMIS: HEALTH=1, FIRE=1, REACTIVITY=0, SPECIFIC HAZARD=N/A, PROTE CTION INDEX=B.

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

Respiratory Protection:NONE REQUIRED IF AIRBORNE CONCENTRATIONS BELOW THRESHOLD LIMITS. OTHERWISE, A RESPIRATORY PROTECTION PROGRAM MEETING OSHA 1910.134 &

ANSI Z88.2 MUST BE FOLLOWED. WHERE MISTING MAY OCCUR, WEAN AN MSHA/ NIOSH APPROVED (OR EQUIVALENT) HALF-MASK FORM DUST/MIST AIR PURIFYING RESPIRATOR.

Ventilation:USE ADEQUATE VENTILATION WHEN WORKING WITH MATERIAL IN AN ENCLOSED AREA. MECHANICAL METHODS SUCH AS FUME HOODS OR AREA FANS MAY BE USED TO REDUCE VAPORS.

Protective Gloves:IMPERVIOUS GLOVES SUCH AS NEOPRENE OR NITRILE RUBBER.

Eye Protection:WEAR SAFETY GLASS WITH SIDE SHIELDS OR VENTED CHEMICAL SPLASH GOGGLES.

Other

Protective Equipment:EYE WASH STATIONS & SHOWERS MUST BE READILY AVAILABLE IN AREAS OF STORAGE & USE. USE APRON & OVERBOOTS OF CHEMICALLY IMPERVIOUS MATERIAL SUCH AS NEOPRENE OR NITRILE RUBBER.

Work Hygienic Practices:LAUNDER SOILED CLOTHES. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES & OTHER MATERIALS WHICH CANNOT BE DECONTAMINATED.

Supplemental Safety and Health

CONSUMPTION OF FOOD AND DRINK SHOULD BE AVOIDED IN WORK AREAS WHERE PRODUCT IS PRESENT. ALWAYS WASH HANDS A

ND FACE WITH SOAP AND WATER

BEFORE EATING. IF HANDLING HOT MATERIAL USE INSULATED PROTECTIVE EQUIPMENT.

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

HCC:V6

Boiling Pt:>260.C, 500.F

B.P. Text:N/D EXPECTED TO BE >26

Vapor Pres:NEGLIGIBLE AT STP

Vapor Density:>1 AT STP

Spec Gravity:0.892 AT 15.6C

Viscosity:14.5 CST AT 100C.

Evaporation Rate & Reference:NEGLIGIBLE AT STP.

Solubility in Water:NEGLIGIBLE IN WATER.

Appearance and Odor:MILD PETROLEUM HYDROCARBON O DOR. VERY DARK BROWN FLUID.

Percent Volatiles by Volume:NEGLIGIBLE

===== 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:SMOKE, CARBON MONOXIDE AND DIOXIDE, AND OTHER ALDEHYDES OF INCOMPLETE COMBUSTION. OXIDES OF C, CA, P AND S. HYDROGEN SULFIDE AND ALKYL MERCAP

TANS AND OTHER SULFIDES MAY  
BE RELEASED.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:ORAL & DERMAL TOXICITY: NOT DETERMINED.  
INHALATION TOXICITY: ON RARE OCCASIONS, REPEATED & PROLONGED  
EXPOSURE TO OIL MIST POSES A RISK OF PULMONARY DISEASE SUCH AS  
CHRONIC LUNG INFLAMMATION. THIS COND ITION IS USUALLY ASYMPOTIC AS  
A RESULT OF REPEATED SMALL ASPIRATIONS. SHORTNESS OF BREATH &  
COUGH  
ARE THE MOST COMMON SYMPTOMS. DERMAL SENSITIZARION: PROLONGED OR  
REPEATED SKIN CONTACT MAY MAKE SKIN MORE SENSITIVE TO OTHER SKIN  
SENSITIZERS. CHRONIC TOXICITY, CARCINOGENICITY, MUTAGENICITY,  
REPRODUCTIVE TOXICITY: NOT DETERMINED.

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

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

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

Waste Disposal Methods:ALL DISPOSALS MUST COMPLY WITH LOCAL, STATE AND  
FEDERAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED MAY BE A  
REGULATED WASTE. REFER TO STATE & LOCAL REGULATIONS. CAUTION-IF  
SPILLED MATERIAL IS CLEANED UP USING A REGULATED SOLVENT, THE  
RESULTING WASTE MIXTURE MAY BE REGULATED.

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

Transport Information:U.S DOT BULK SHIPPING DESCRIPTION: DOES NOT APPLY  
TO NON-BULK SHIPPING. U.S. DOT NON-BULK SHIPPING DESCRIPTION: DOES  
NOT APPLY TO NON-BULK SHIPPING. U.S. DOT IDENTIFICATION NUMBER: NOT  
APPLICABLE. U.S . DOT HAZARD CLASSIFICATION: NOT APPLICABLE. OTHER:  
SEE 49 CFR FOR ADDITIONAL REQUIREMENTS FOR DESCRIPTION, ALLOWED  
MODES OF TRANSPORT, AND PACKAGING. FOR MORE INFORMATION CONCERNING  
SPILLS DURING TRA NSPORT, CONSULT LATEST DOT EMERGENCY RESPONSE  
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===== Regulatory Information =====

SARA Title III Information:SECTION 302/304 EXTREMELY HAZARDOUS  
SUBSTANCES: NONE. SECTION 311, 312 HAZARD CATEGORIZATION: ACUTE  
(IMMEDIATE HEALTH EFFECTS)-YES, CHRONIC (DELAYED HEALTH  
EFFECTS)-NO, FIRE (HAZARD)-NO, REACTIVITY ( HAZARD)-NO, PRESSURE  
(SUDDEN RELEASE HAZARD)-NO. SECTION 313 TOXIC CHEMICALS: NONE.

Federal Regulatory Information:UNDER SECTION 311 OF THE CLEAN WATER ACT

(40 CFR 110) AND THE OIL POLLUTION CONTROL ACT OF 1990, THIS  
MATERIAL IS CONSIDERED AN OIL. ANY SPILLS 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 THE NATIONAL RESPONSE CENTER AT 800-424-8802.

TSCA: ALL COMPONENTS OF THIS MATERIAL ARE LISTED IN THE US TSCA  
INVENTORY. OTHER TSCA: NOT APPLICABLE. CERCLA: RQ: NOT DETERMINED.

RECOMMEND CONTACTING THE LOCAL AUTHORITIES IN THE EVENT OF ANY TYPE  
OF SPILL TO DETERMINE LOCAL REPORTING REQUIREMENTS & ALSO TO AID IN  
THE CLEANUP.

State Regulatory Information:CALIFORNIA PROPOSITION 65: NOT APPLICABLE.

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

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