

GARD CORPORATION -- GARDGEAR MIL-PRF-2105E GEAR OIL SAE 80W-90 MG-2065 --
9150-01-035-5393

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

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

MSDS Date:06/18/1997

FSC:9150

NIIN:01-035-5393

MSDS Number: CGMWX

=== Responsible Party ===

Company Name:GARD CORPORATION

Address:2727 ROE LANE

City:KANSAS CITY

State:KS

ZIP:66103

Country:US

Info Phone Num:913-23

6-5000

Emergency Phone Num:913-236-5000/800-424-9300(CHEMTREC)

Preparer's Name:MICHAEL MCLEMORE

CAGE:3K676

=== Contractor Identification ===

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

CAGE:3K676

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

Ingred Name:HYDROTREATED PARAFFINIC DISTILLATES

Minumum % Wt:85.

Maxumum % Wt:95.

Other REC Limits:5 MG/M3 OIL MIS

T

Ingred Name:PROPRIETARY ADDITIVES

Minumum % Wt:5.

Maxumum % Wt:15.

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:TLV (OIL MIST): 5 MG/M3

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

Health Hazards Acute and Chronic:EYE-CAN CAUSE MILD EYE IRRITATION.

SKIN-MAY CAUSE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY
RESULT IN DERMATITIS. INHALE-OVEREXPOSURE BY INHALATION OF HOT
MATERIAL MAY CAUSE NO

NSPECIFIC DISCOMFORT. INGEST-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 CHARACTERIZED BY PULMONARY EDEMA AND HEMORRHAGE AND MAY BE FATAL. GASTROINTESTINAL DISCOMFORT MAY DEVELOP. THIS PRODUCT HAS LAXATIVE PROPERTIES.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.

Effects of Overexposure:EYES-DISCOMFORT, TEARING, BLURRED VISION. SKIN-DERMATITIS, DRYNESS, CHAPPING, REDDENING. INHALED-NAUSEA, HEADACHE, WEAKNESS. INGESTION-ASPIRATION: INCREASED RESPIRATORY RATE, INCREASED HEART RATE, BLuish COLORING OF SKIN, COUGHING, CHOKING, GAGGING. ABDOMINAL CRAMPS, & DIARRHEA.

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

First Aid:EYE-IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS CALL A PHYSICIAN. IF MATERIAL IS HOT TREAT FOR THERMAL BURNS & TAKE TO HOSPITAL. SKIN-REMOVE CONTAMINATED CLOTHES. WASH AREA WITH SOAP & WATER. SEEK MEDICAL ATTENTION. IF MATERIAL IS HOT, SUBMERGE AREA IN COOL WATER. IF SEVERELY BURNED TAKE TO HOSPITAL. INHALE-REMOVE TO FRESH AIR. USE OXYGEN IF IT'S HARD TO BREATHE OR CPR IF BREATHING STOPS. SEEK MEDICAL AID. ORAL-DO NOT INDUCE VOMITING. IMMEDIATELY GIVE 2 GLASSES OF WATER. IF VOMITING OCCURS LOWER HEAD BELOW KNEES TO AVOID ASPIRATION. SEEK IMMEDIATE MEDICAL ASSISTANCE.

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

Flash Point Method:COC
Flash Point:~277.C, 530.6F
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 USED WHEN USING WATER AS FROTHING & 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 TRAVEL ALONG GROUND LEVEL & LOW SPOTS TO CREATE AN INVISIBLE FIRE HAZARD. THE VAPORS MAY EXTEND TO SOURCES OF IGNITION AND FLASH BACK.

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

Spill Release Procedures:IMMEDIATELY TURN OFF/ISOLATE ANY IGNITION SOURCE. EVACUATE AREA

EA & VENTILATE. PERSONNEL WEARING PROPER PROTECTIVE EQUIPMENT SHOULD CONTAIN SPILL WITH INERT MATERIALS BY FORMING DIKES. DIKES SHOULD PREVENT MATERIAL FROM ENTERING SEWERS & WATERWAYS. LARGE SPILLS, ONCE CONTAINED, MAY BE PICKED UP USING EXPLOSION PROOF, NONSPARKING VACUUM PUMPS, SHOVEL, BUCKETS & DISPOSED OF IN SUITABLE CONTAINERS.

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE AWAY FROM

HEAT, SPARKS, OPEN FLAME OR OXIDIZING MATERIALS. KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT TRANSFER TO UNMARKED CONTAINERS. FIRE EXTINGUISHERS SHOULD BE KEPT READILY AVAILABLE.

Other Precautions:EMPTY CONTAINERS RETAIN PRODUCT RESIDUE WHICH MAY EXHIBIT HAZARDS OF MATERIAL, THEREFORE DO NOT PRESSURIZE, CUT GLAZE, WELD, OR USE FOR ANY OTHER PURPOSE. RETURN DRUMS TO RECLAMATION CENTERS FOR PROPER CLEANING & REUSE.

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

=====

Respiratory Protection:NONE REQUIRED IF AIRBORNE CONCENTRATIONS ARE MAINTAINED BELOW THRESHOLD LIMITS LISTED ON PAGE 1. OTHERWISE A RESPIRATORY PROTECTION PROGRAM MEETING OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED. WHERE MISTING MAY OCCUR, WEAR 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 VAPOR AREAS.

Protective Gloves:IMPERVIOUS GLOVES SUCH AS NEOPRENE OR RUBBER TO AVOID SKIN SENSITIZATION.

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:USE AN APRON & OVERBOOTS OF CHEMICALLY IMPERVIOUS MATERIALS SUCH AS NEOPRENE OR NITRILE RUBBER IS RECOMMENDED TO AVOID SKIN SENSITIZATION. IF HANDLING HOT MATERIAL USE INSULATED PROTECTIVE EQUIPMENT.

Work Hygienic Practices:LAUNDER SOILED CLOTHES. PROPE

PROPERLY DISPOSE OF

CONTAMINATED LEATHER ARTICLES & OTHER MATERIALS WHICH CANNOT BE CONTAMINATED.

Supplemental Safety and Health

OTHER PROTECT EQUIPMENT: EYEWASH STATIONS & SHOWERS SHOULD BE AVAILABLE IN AREAS WHERE THIS MATERIAL IS USED & STORED. CAUTION - IF SPILLED MATERIAL IS CLEANED UP USING A REGULATED SOLVENT, THE RESULTING MIXTURE MAY BE REGULATED.

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

HCC:V6

Boiling Pt:>260.C, 500.F

Melt/Freeze Pt:=-27.C,

-16.6F

Vapor Pres:NEGLIGIBLE

Vapor Density:>1

Spec Gravity:0.892

Viscosity:14.5 CST@100C

Evaporation Rate & Reference:NEGLIGIBLE (N-BUAC=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:VERY DARK BROWN LIQUID; 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:MATERIAL IS STABLE AT

ROOM TEMPERATURE AND

PRESSURE. AVOID HIGH TEMPERATURES AND PRODUCT CONTAMINATION.

Hazardous Decomposition Products:SMOKE, CARBON MONOXIDE & DIOXIDE,

OTHER ALDEHYDES OF INCOMPLETE COMBUSTION. OXIDES OF CA, C, P & S.

HYDROGEN SULFIDE AND ALKYL MERCAPTANS AND OTHER SULFIDES MAY BE RELEASED.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:INHALATION TOXICITY: ON RARE OCCASIONS,
PR

PROLONGED & REPEATED EXPOSURE TO OIL MIST POSES A RISK OF PULMONARY DISEASE SUCH AS CHRONIC LUNG INFLAMMATION. THIS CONDITION IS USUALLY ASYMPTOMATIC AS A RESULT OF REPEATED SMALL ASPIRATIONS. SHORTNESS OF BREATH & COUGH ARE THE MOST COMMON SYMPTOMS. BASED ON DATA FROM SIMILAR MATERIALS. DERMAL SENSITIZATION: PROLONGED OR REPEATED CONTACT MAY MAKE SKIN MORE SENSITIVE TO OTHER SKIN SENSITIZATION. BASED ON DATA FROM SIMILAR MATERIALS.

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

Ecological: ENVIRONMENTAL TOXICITY: THIS MATERIAL MAY BE TOXIC TO AQUATIC ORGANISMS & SHOULD BE KEPT OUT OF SEWAGE & DRAINAGE SYSTEMS & ALL BODIES OF WATER. ENVIRONMENTAL 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. DOT REGULATIONS MAY APPLY TO FOR TRANSPORT OF THIS PRODUCT WHEN SPILLED.

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

Transport Information: U.S DOT BULK SHIPPING DESCRIPTION: DOES NOT APPLY TO BULK OIL SHIPPING. U.S DOT NON-BULK SHIPPING DESCRIPTION: DOES NOT APPLY TO NON-BULK OIL 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, & PACKAGING. FOR MORE INFORMATION CONCERNING SPILLS DURING TRANSPORT, CONSULT LATEST DOT EMERGENCY RESPONSE GUIDEBOOK FOR HAZARDOUS MATERIALS INCIDENTS, DOT P 5800.3.

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

SARA Title III Information: CATEGORIZATION: ACUTE (IMMEDIATE HEALTH EFFECTS)-YES. CHRONIC (DELAYED HEALTH EFFECTS)-NO. FIRE (HAZARD)-NO. REACTIVITY (HAZARD)-NO. PRESSURE (SUDDEN RELEASE HAZARD)-NO. SE

CTION 313 TOXIC CHEMICALS: N ONE.

Federal Regulatory Information:CERCLA: FOR STATIONARY

SOURCES-REPORTABLE QUANTITY: NOT DETERMINED. FOR MOVING

SOURCES-REPORTABLE QUANTITY: NOT DETERMINED. RECOMMEND CONTACTING

THE LOCAL AUTHORITIES IN THE EVENT OF ANY TYPE OF SPILL TO

DETERMINED LOCAL REPORTING REQUIREMENTS & ALSO TO AID IN THE

CLEANUP. TSCA: ALL COMPONENTS OF THIS MATERIAL ARE LISTED IN THE

U.S. TSCA INVENTORY. OTHER TSCA: NOT APPLICABLE.

State Regulatory Information:CA

LIFORNIA PROP. 65: NOT APPLICABLE.

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

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department

of Defense. The United States of America in no manner whatsoever,

expressly or implied, warrants this information to be accurate and

disclaims all liability for its use. Any person utilizing this

document should seek competent professional advice

to verify and

assume responsibility for the suitability of this information to their

particular situation.