

GARD CORPORATION -- GARD FLEET MC-40 MIL-PRF-2104G -- 9150-00-188-9862

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

Product ID:GARD FLEET MC-40 MIL-PRF-2104G

MSDS Date:02/18/2000

FSC:9150

NIIN:00-188-9862

MSDS Number: CKKFB

=== Responsible Party ===

Company Name:GARD CORPORATION

Address:2840 ROE LANE

City:KANSAS CITY

State:KS

ZIP:66103-1543

Country:US

Info Phone Num:913-236-5000

Emergency Phone Num:913-236

-5000

Preparer's Name:MICHAEL MCLEMORE

Chemtrec Ind/Phone:(800)424-9300

CAGE:3K676

=== 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:SP0450-00-D-0293

CAGE:3K676

===== Compos

Information on Ingredients =====

Ingredient Name:HYDROTREATED PARAFFINIC

Minimum % Wt:80.

Maximum % Wt:90.

OSHA PEL:5 MG/M3

OSHA STEL:10 MG/M3

Ingredient Name:PROPRIETARY ADDITIVES

Minimum % Wt:10.

Maximum % Wt:20.

OSHA PEL:5 MG/M3

OSHA STEL:10 MG/M3

Ingredient Name:ZINC SALTS OF DIALKYL DITHIOPHOSPHORIC ACID,

CAS:68649-42-3

< Wt:5.

OSHA PEL:5 MG/M3

OSHA STEL:10 MG/M3

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

LD50 LC50 Mixture:ORAL (RAT) IS NOT DETERMINED

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Health Hazards Acute and Chronic:EYE: NOT EXPECTED TO CAUSE EYE IRRITATION. SKIN: NOT EXPECTED TO CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY LEAD TO AN ALLERGIC SKIN SENSITIZATION IN SOME INDIVIDUALS & DERMATITIS. INHALATION: OVEREXPOSURE BY INHALATION OF HOT MATERIAL MAY CAUSE NONSPECIFIC DISCOMFORT. CAUTION SHOULD BE TAKEN TO PREVENT FORMING AEROSOL OR MISTING OF THIS PRODUCT WITHOUT PROPER RESPIRATORY PROTECTION . INGESTION: DO NOT INGEST. DUE TO T

THE EXPECTED CONCENTRATION OF OIL INGESTION IS EXPECTED TO BE RELATIVELY NON-TOXIC UNLESS ASPIRATION OCCURS. ASPIRATION MAY LEAD TO CHEMICAL PNEUMONITIS WHICH IS CHARACTERIZED BY PULMONARY EDEMA & HEMORRH

Explanation of Carcinogenicity:/P

Effects of Overexposure:EYES: DISCOMFORT, TEARING, OR BLURRING OF VISION. SKIN: ALLERGIC SKIN SENSITIZATION AND DERMATITIS (DRYNESS, CHAPPING AND REDDENING OF SKIN). INHALATION: MAY CAUSE NONSPECIFIC DISCOMFORT, SUCH AS NAUSEA, HEADACH

E, OR WEAKNESS.

INGESTION: LUNG ASPIRATION, CHEMICAL PNEUMONITIS WHICH IS CHARACTERIZED BY PULMONARY EDEMA, HEMORRHAGE, INCREASED RESPIRATORY RATE, INCREASED HEART RATE, A BLUISH DISCOLO RATION OF THE SKIN, COUGHING, CHOKING, GAGGING, GASTROINTESTIONAL DISCOMFORT, VOMITING, ABDOMINAL CRAMPS, AND DIARRHEA.

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

First Aid:EYE-FLUSH WITH WATER & CONTINUE FLUSHING UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSI
STS CALL DOCTOR. IF MATERIAL IS HOT,
TREAT FOR THERMAL BURNS, TAKE VICTIM TO HOSPITAL. SKIN-REMOVE SOILED CLOTHIN G. WASH AREA WITH SOAP & WATER. IF REDNESS/IRRITATION OCCURS, SEEK MEDICAL AID. IF MATERIAL IS HOT, SUBMERGE IN COLD WATER. IF SEVERELY BURNED, REMOVE TO HOSPITAL. INHALATION-IF OVERCOME BY HOT VAPOR S, REMOVE TO FRESH AIR. USE OXYGEN IF HARD TO BREATHE/ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. ORAL-DO NOT INDUCE VOMITING. GIVE 2 GLASSES OF WEATER.
IF
VOMITING OCCURS LOWER HEAD BELOW KNEES TO AVOID ASPIRATION. SEEK MEDICAL AID.

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

Flash Point Method:COC

Flash Point:=263.C, 505.4F

Autoignition Temp:Autoignition Temp Text:N/D

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 B

E
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. THE VAPORS MAY EXTEND TO SOURCES OF IGNITION AND FLASH BACK.

===== Accidental Release

Measures =====

Spill Release Procedures:IMMEDIATELY TURN OFF OR ISOLATE ANY SOURCE OF IGNITION (PILOT LIGHTS, ELECTRICAL EQUIPMENT, FLAMES AND HEATERS). EVACUATE & VENTILATE AREA. PERSONNEL WEARING PROPER PROTECTIVE EQUIPMENT SHOULD CONTACT IN SPILL IMMEDIATELY WITH INERT MATERIALS (SAND, EARTH, CHEMICAL SPILL PADS OF COTTON) BY FORMING DIKES. DIKES TO CONTAIN SPILL IN A MANNER THAT WILL PREVENT ENTRY TO SEWERS & WATERWAYS.

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. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE WHICH MAY EXHIBIT HAZARDS OF MATERIAL, THEREFORE DO NOT PRESSURIZE, CUT, GLAZE, WELD, OR USE FOR ANY OTHER PURPOSES.

Other Precautions:SEE NFPA 20 AND OSHA 1910.106 - FLAMMABLE AND C

COMBUSTIBLE LIQUIDS. RETURN DRUMS TO RECLAMATION CENTERS FOR PROPER CLEANING AND REUSE. STORE CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME, OR OXIDIZING MATERIALS.

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

Respiratory Protection:NONE REQUIRED IF AIRBORNE CONCENTRATIONS ARE MAINTAINED BELOW THRESHOLD LIMITS. 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.

Protective Gloves:IMPERVIOUS GLOVES - NEOPRENE OR NITRILE RUBBER

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS OR VENTED/SPLASH PROOF GOGGLES

Other Protective Equipment:USE OF AN APRON AND OVERBOOTS OF CHEMICALLY IMPERVIOUS MATERIALS

SUCH AS NEOPRENE OR NITRILE RUBBER IS RECOMMENDED TO AVOID SKIN SENSITIZATION. EYEWASH STATIONS & SHOWERS SHOULD BE AVAILABLE.

Work Hygienic Practices:LAUNDER SOILED CLOTHES. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES AND OTHER MATERIALS WHICH CANNOT BE DECONTAMINATED. CONSUMPTION OF FOOD & DRINK SHOULD BE AVOIDED IN WORK AREAS.

Supplemental Safety and Health

IF HANDLING HOT MATERIAL USE INSULATED PROTECTIVE EQUIPMENT. IF VAPOR OR MIST IS GENERATED WHEN THE MATER

IAL IS HEATED OR HANDLED,

ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES MU ST BE PROVIDED TO MAINTAIN CONCENTRATIONS BELOW SPECIFIED EXPOSURES.

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

HCC:V6

Boiling Pt:>260.C, 500.F

Melt/Freeze Pt:=-15.C, 5.F

M.P/F.P Text:BY ASTM D97

Vapor Pres:NEGLIGIBLE AT STP

Vapor Density:AIR=1 >1

Spec Gravity:0.893@15.6C BY ASTM D1298

Viscosity:14.2 CST @100C - ASTM D445

Evaporation Rate & Reference:NEGLIGIBLE

@ STP

Solubility in Water:NEGLIGIBLE

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

===== 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, ZN, CA,

P AND 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, PROLONGED & REPEATED EXPOSURE TO OIL MIST POSES A RISK OF PULOMONARY DISEASE SUCH AS CHRONIC LUNG INFLAMMATION. THIS CONDITION IS USUALLY ASYMPTOMATIC AS A RESU LT OF REPEATED SMALL ASPIRATIONS. SHORTN

ESS 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 SENSITIZERS. BASED ON DATA FROM SIMILAR MATERIALS.

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

Waste Disposal Methods: ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED MAY BE A REGULATED WASTE. REFER TO STATE AND LOCAL REGULATIONS. DEPARTMENT OF TRANSPORTATION REGULATIONS MAY APPLY FOR TRANSPORTING THIS MATERIAL WHEN SPILLED.

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

SARA Title III Information: SARA TITLE III: 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: ZINC