

UNIMARK OIL LLC -- RC 15W-40 MIL-PRF-2104G (RE-REFINED)

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MSDS Safety Information
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FSC: 9150
NIIN: 01-421-1432
MSDS Date: 11/21/2000
MSDS Num: CKXRB
Product ID: RC 15W-40 MIL-PRF-2104G (RE-REFINED)
MFN: 01
Responsible Party
Cage: 1RU67
Name: UNIMARK OIL CO LLC
Address: 2727 ROE LANE
City: KANSAS CITY
KS 66103-1543
Info Phone Number: 913-236-5000 FAX/913-432-8309
Emergency Phone Number: 913-236-5000
Chemtrec IND/Phone: (800)424-9300
Proprietary Ind: Y
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: 1RU67
Name: UNIMARK OIL CO LLC
Address: 2727 ROE LANE
City: KANSAS CITY KS 66103-1543
Phone: 913-236-5000 FAX/913-432-8309
Contract Number: SP0450-01-M-C544
Cage: 1RU67
Name: UNIMAR
K OIL CO LLC
Address: 2727 ROE LANE
City: KANSAS CITY KS 66103-1543
Phone: 913-236-5000 FAX/913-432-8309
Contract Number: SPO450-01-M-LA23

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Item Description Information
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Item Manager: S9G
Item Name: LUBRICATING OIL,ENGINE
Specification Number: MIL-L-2104
Type/Grade/Class: 15W-40 GRADE
Unit of Issue: DR
Quantitative Expression: 00000000055GL
UI Container Qty: 1
Type of Container: DRUM
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Ingredients
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Name: *** PROPRIETARY ***

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Health Hazards Data
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Effects of Exposure: EYE-THIS PRODUCT IS NOT NORMALLY EXPECTED TO CAUSE EYE IRRITATION. SKIN-THIS PRODUCT IS NOT EXPECTED TO CAUSE SKIN IRRITATION. INHALATION-OVEREXPOSURE BY INHALATI

ONOF HOT MATERIAL MAY CAUSE NONSPECIFI C DISCOMFORT. CAUTION SHOULD BE TAKEN TO PREVENT FORMING AEROSOL OR MISTING OF THIS PRODUCT WITHOUT PROPER RESPIRATORY PROTECTION. INGESTION-DO NOT 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 &; HEMORRHAGE &; MAY BE FATAL .

Explanation Of Carcinogenicity: CARCI NOGENICITY: NOT DETERMINED.

Signs And Symptions Of Overexposure: EYE-AVOID PROLONGED CONTACT WITH EYES WHICH MAY CAUSE MILD EYE DISCOMFORT, LEARING, OR BLURRED VISION. SKIN-DRYNESS, CHAPPING, REDDENING OF SKIN. INHALATION-NAUSEA, HEADACHE, OR WEAKNESS. INGESTION-SI GNS OF LUNG INVOLVEMENT INCLUDE INCREASED RESPIRATORY RATE, INCREASED HEART RATE, &; A BLUISH DISCOLORATION OF THE SKIN. COUGHING, CHOKING &; GAGGING ARE OFTEN NOTED AT THE TIME OF ASPIRATION. GASTROINT ESTINAL DISCO

MFORT MAY DEVELOP, FOLLOWED BY VOMITING WITH A FURTHER RISK OF ASPIRATION. THIS PRODUCT HAS LAXATIVE PROPERTIES, ABDOMINAL CRAMPS, DIARRHEA.

Medical Cond Aggravated By Exposure: PROLONGED/REPEATED CONTACT MAY LEAD TO ALLERGIC SKIN SENSITIZATION IN SOME INDIVIDUALS &; DERMATITIS.

First Aid: EYE-IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER &; CONTINUE FLUSHING UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS CALL A DOCTOR. IF MATERIAL IS HOT, TREAT FOR THERMAL BURNS &; TAKE VI CTIM TO HOSP ITAL.

SKIN-REMOVE SOILED CLOTHES. WASH AREA WITH SOAP &; WATER. IF REDNESS/IRRITATION OCCURS, SEEK MEDICAL AID. IF MATERIAL IS HOT, SUBMERGE AREA IN COLD WATER. IF SEVERELY BURNED, REMOVE TO HOSPITAL IMMEDIATELY. INHALATION-ERMOVE TO FRESH AIR. USE OXYGEN IF BREATHING IS DIFFICULT OR ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. SEEK MEDICAL AID. ORAL-DO NOT INDUCE VOMITING. IMMEDIATELY GIVE 2 GLASSES OF WATER. SEEK MEDICAL AID.
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Handling and Disposal

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Spill Release Procedures: WATER: REMOVE FROM SURFACE BY SKIMMING OR WITH SUITABLE ADSORBENTS. IF A LARGE SPILL OCCURS NOTIFY APPROPRIATE AUTHORITIES. "LAND SPILLS SEE OTHER INFORMATION"

Waste Disposal Methods: ALL DISPOSAL MUST COMPLY WITH FEDERAL, STATE & LOCAL REGS. THE MATERIAL, IF SPILLED OR DISCARDED MAY BE A REGULATED WASTE. REFER TO STATE & LOCAL REGS. DEPARTMENT OF TRANSPORTATION REGS MAY APPLY

FOR TRANSPORTING THIS MATERIAL WHEN SPILLED. CAUTION-IF SPILLED MATERIAL IS CLEANED UP USING A REGULATED SOLVENT, THE RESULTING MIX MAY BE REGULATED.

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

Other Precautions: RETURN DRUMS TO RECLAMATION CENTERS FOR PROPER CLEANING & REUSE. STORE: STORE CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAMES, OR OXIDIZING MATERIALS. *NFPA 705: HEALTH-1, FIRE-1, REACTIVITY-0, NPCA-HM I: HEALTH-1, FIRE-1, REACTIVITY-0.

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Fire and Explosion Hazard Information

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Flash Point Method: COC

Flash Point: =228.C, 442.4F

Flash Point Text: ASTM

D 92

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 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.

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Control Measures

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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

D.

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 FUNE HOODS OR AREA FANS MAY BE USED. TO REDUCE VAPOR/MIST

Protective Gloves: IMPERIOUS GLOVES SUCH AS NEOPRENE ORNITRILE RUBBER MAY BE USED.

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

Other Protective Equipment: AP

RON & OVERBOOTS OF CHEMICALLY IMPERVIOUS

MATERIALS SUCH AS NEOPRENE OR NITRILE RUBBER CAN BE WORN TO AVOID ALLERGIC SKIN SENSITIZATION. IF HANDLING HOT MATERIAL USE INSULATED PROTECTIVE EQUIPMENT.

Work Hygienic Practices: EYEWASH STATIONS & SHOWERS SHOULD BE AVAILABLE IN AREAS WHERE THIS MATERIAL IS USED & STORED. CONSUMPTION OF FOOD & DRINK SHOULD BE AVOIDED IN WORK AREAS WHERE PRODUCT IS PRESENT.

Supplemental Safety and Health: WASH SOILDED CLOTHING BEFORE RESUE. IF VAPOR OR MIST I

S GENERATE WHEN THE MATERIAL IS HEATED/HANDLED, ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINNERING PRACTICES MUST BE PROVIDED TO MAINTAIN CO NCENTRATIONS BELOW THE SPECIFIED EXPOSURE. ALWAYS WASH HANDS/FACE WITH SOAP 7 WATER BEFORE EATING, DRINKING, SMOKING.

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Physical/Chemical Properties
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HCC: V6

Vapor Pres: NEGLIGIBLE AT STP

Spec Gravity: 0.881 AT 15.6C BY ASTM D

Appearance

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

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Reactivity Data
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Stability Indicator: YES

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

Materials To Avoid: AVOID CONTACT WITH ACIDS AND OXIDIZING MATERIALS.

Hazardous Decomposition Products: SMOKE, CARBON MONOXIDE AND DIOXIDE, AND OTHER ALDEHYDES OF INCOMPLETE COMBUSTION. OXIDES

OF C, ZN, CA, MG, N, P, AND S.

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

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: WILL NOT OCCUR.

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Toxicological Information
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Toxicological Information: ORAL TOXICITY: NOT DETERMINED. DERMAL TOXICITY: NOT DETERMINED. INHALATION TOXICITY: ON RARE OCCASIONS, 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 SENSITIZERS. BASED ON DATA FROM SIMILAR MATERIALS. CHRONIC TOXICITY: NOT DETERMINED.

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

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MSDS Transport Information
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Regulatory Information
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Sara Title III Information: SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCES: NONE. SECTION 311, 312 HAZARD CATEGORIES: ACUTE(IMMEDIATE HEALTH EFFECST)-YES, CHRONIC (DELAYED HEALTH EFFECTS)-NO, FIRE (HAZARD)-NO, REACTIVITY (HAZARD)-NO, PRESSURE (SUDDEN RELEASE HAZARD)-NO. SECTION 313 TOXIC CHEMICALS: ZINC<0.10%.

CERCLA: NOT DETERMINED. RECOMMENDED CONTACTING THE LOCAL AUTHORITIES IN THE EVENT O F ANY TYPE OF SPILL TO DETERMINE LOCAL REPORTING REQUIREMENTS AND ALSO TO AID IN THE CLEANUP.

Federal Regulatory Information: CLEAN WATER ACT/OIL POLLUTION ACT: UNDER SECTION 311 OF THE CWA (40 CFR 110) AND THE OIL POLLUTION CONTROL ACT OF 1990, THIS MATERIAL IS CONSIDERED AN OIL. ANY SPILLS OR DISCHARGES THAT PRODUCE A VISI BLE SHEEN OR FILM ON SURFACE WATER MUST BE REPORTED. CONTACT THE NATIONAL RESPONSE CENTER (800-424-8802). TSCA: ALL COMPONENTS OF THIS MATERIAL ARE LISTED IN TH

E U.S. TSCA INVENTORY. OTHER TSCA: NOT A PPLICABLE.

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Other Information
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Other Information: LAND SPILL: IMMEDIATELY TURN OFF/ISOLATE ANY IGNITION SOURCE (PILOT LIGHTS, ELECTRICAL EQUIPMENT, FLAMES & HEATERS). EVACAUTE AREA & VENTILATE. PERSONNEL WEARING PROPER PROTECTIVE EQUIPMENT SHOULD CONTAIN SPILL IMMEDIATELY WITH INERT MATERIAL (SAND, EARTH, CHEMICAL SPILL PADS OF COTTON) BY FORMING DIKES. DIKES SHOULD BE PLACED TO CONTAIN SPILL SO THAT AS TO PREVENT MATERIAL FROM ENTERING SEWERS & WATERWAYS. LARGE SPILLS, ONCE CONTAINED, MAY BE PICKED UP USING EXPLOSION PROOF, NON-SPARKING VACUUM PUMPS, SHOVELS OR BUCKETS & DISPOSED OF IN SUITABLE CONTAINER FOR DISPOSAL. NOTIFY APPROPRIATE AUTH ORITIES FOR LARGE SPILL.

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Transportation Information
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Responsible Party Cage: 1RU67
Trans ID NO: 155804
Product ID: RC 15W-40 MIL-PRF-2104G (RE-REFINED)
MSDS Prepared Date: 11/21/2000
Review Date: 02/23/2001
MFN: 1
Net Unit Weight: 403.6 LBS
Multiple KIT Number: 0
Review IND: Y
Unit Of Issue: DR
Container QTY: 1
Type Of Container: DRUM

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Detail DOT Information
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DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail IMO Information
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IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

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Detail IATA Information
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IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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Detail AFI Information

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AFI PSN Code: ZZZ

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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HAZCOM Label

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Product ID: RC 15W-40 MIL-PRF-2104G (RE-REFINED)

Cage: 1RU67

Company Name: UNIMARK OIL CO LLC

Street: 2727 ROE LANE

City: KANSAS CITY KS

Zipcode: 66103-1543

Health Emergency Phone: 913

-236-5000

Label Required IND: Y

Date Of Label Review: 01/12/2001

Status Code: A

Year Procured: 1999

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Slight

Contact Hazard: Slight

Fire Hazard: Slight

Reactivity Hazard: None

Hazard And Precautions: EYE-THIS PRODUCT IS NOT NORMALLY EXPECTED TO CAUSE EYE IRRITATION. SKIN-THIS PRODUCT IS NOT EXPECTED TO CAUSE SKIN IRRITATION.

INHALATION-O

VEREXPOSURE BY INHALATIONOF HOT MATERIAL MAY CAUSE NONSPECIFI C DISCOMFORT. CAUTION SHOULD BE TAKEN TOPREVENT FORMING AEROSOL OR MISTING OF THIS PRODUCT WITHOUT PROPER RESPIRATORY PROTECTION. INGESTION-DO NOT 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 & HEMORRHAGE & MAY BE FATAL.

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