

UNIMARK OIL LLC -- GARDFLEET SAE 15W-40

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MSDS Safety Information
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FSC: 9150
NIIN: 01-178-4725
MSDS Date: 03/24/1998
MSDS Num: CKZSW
Product ID: GARDFLEET SAE 15W-40
MFN: 01
Responsible Party
Cage: 1RU67
Name: UNIMARK OIL CO LLC
Address: 2727 ROE LANE
City: KANSAS CITY KS 66103-1543
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Info Phone Number: 913-236-5000 FAX/913-432-8309
Emergency Phone Number: 913-236-5000
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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: QT
UI Container Qty: B
Type of Container: QUART
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Ingredients
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Name: *** PROPRIETARY ***

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Health Hazards Data
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Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYE CONTACT: PRODUCT NOT EXPECTED TO CAUSE IRRITATION.
PROLONGED CONTACT MAY CAUSE MILD EYE DISCOMFORT. SKIN CONTACT: PRODUCT NOT
EXPECTED TO CAUSE IRRITATION. PROLONGED OR REPEATED CONTACT MAY LEAD TO A

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ALLERGIC SKIN SENSITIZATION IN SOME PEOPLE AND DERMATITIS. INHALATION: HOT MATERIAL MAY CAUSE NONSPECIFIC DISCOMFORT, SUCH AS NAUSEA, HEADACHE, OR WEAKNESS. INGESTION: DUE TO EXPECTED CONCENTRATION OF OIL (70-100%) INGESTION IS EXPECTED TO BE RELATIVELY NON-TOXIC UNLESS LUNG ASPIRATION OCCURS WHICH MAY LEAD TO CHEMICAL PNEUMONITIS. PRODUCT HAS LAXATIVE PROPERTIES AND MAY RESULT IN ABDOMINAL CRAMPS AND DIARRHEA.

Explanation Of Carcinogenicity: NONE OF THE OILS REQUIRE A CANCER WARNING UNDER

OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200), HAVE NOT BEEN LISTED IN NTP ANNUAL REPORT, NOR CLASSIFIED BY INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) AS; CARCINOGENIC TO HUMANS (GROUP 1), PROBABLY CARCINOGENIC TO HUMANS (GROUP 2A), OR POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B).

Signs And Symptoms Of Overexposure: EYE CONTACT: MILD EYE DISCOMFORT, TEARING, BLURRED VISION. SKIN CONTACT:ALLERGIC SKIN SENSITIZATION, DERMATITIS, DRYNESS, CHAPPING, REDDENING.

INHALATION: NAUSEA, HEADACHE, WEAKNESS.

INGESTION: GASTRO INTESTINAL DISCOMFORT, VOMITING, ABDOMINAL CRAMPS, DIARRHEA. LUNG ASPIRATION: INCREASED RESPIRATORY RATE, INCREASED HEART RATE, BLUISH DISCOLORATION OF THE SKIN, COUGHING, CHOKING, GAGGING, PULMONARY EDEMA, HEMORRHAGE, DEATH, INCREASED RESPIRATORY RATE, INCREASED HEART RATE, BLUISH DISCOLORATION OF THE SKIN, ABDOMINAL CRAMPS, DIARRHEA.

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid: EYE CONTACT:

FLUSH WITH LARGE AMOUNTS OF WATER UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS GET MEDICAL ATTENTION. IF MATERIAL IS HOT, TREAT FOR THERMAL BURNS AND TAKE VICTIM TO HOSPITAL. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. WASH SKIN WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. IF MATERIAL IS HOT, SUBMERGE INJURED AREA IN COLD WATER. IF SEVERELY BURNED, REMOVE TO HOSPITAL. INHALATION: MOVE TO FRESH AIR. USE OXYGEN IF BREATHING IS DIFFICULT

OR ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE (CONTD. TO "SUPPLEMENTAL SAFETY")

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Handling and Disposal
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Spill Release Procedures: TURN OFF SOURCES OF IGNITION (PILOT LIGHTS, ELECTRICAL EQUIPMENT, FLAMES, AND HEATERS).. EVACUATE AREA AND VENTILATE. WEAR PROPER PROTECTIVE EQUIPMENT. CONTAIN SPILL WITH INERT MATERIALS (SAND, EARTH,

CHEMICAL SPILL PADS OF COTTON) BY FORMING DIKES. PREVENT MATERIAL FROM ENTERING SEWERS AND WATERWAYS. LARGE SPILL, ONCE CONTAINED, MAY BE PICKED UP USING EXPLOSION PROOF, (CONTD. SEE "ECOLOGICAL")

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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. MOST USED OIL IS RECLAIMED OR INCINERATED.

Handling And Storage Precautions: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT TRANSFER TO UNMARKED CONTAINERS. FIRE EXTINGUISHERS SHOULD BE KEPT READILY AVAILABLE. SEE NFPA 30 AND OSHA 1910.106 - FLAMMABLE AND COMBUSTIBLE LIQUIDS. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE WHICH MAY EXHIBIT HAZARDS OF MATERIAL.

Other Precautions: DO NOT PRESSURIZE, CUT, WELD, OR REUSE EMPTY CONTAINERS. RET

URN DRUMS TO RECLAMATION CENTERS FOR PROPER CLEANING AND REUSE. STORE AWAY FROM HEAT, SPARKS, OPEN FLAME, OR OXIDIZING MATERIALS. AVOID PROLONGED CONTACT WITH EYES, SKIN. PREVENT FORMING AEROSOLS OR MISTING WITHOUT PROPER RESPIRATORY PROTECTION. DO NOT INGEST.

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Fire and Explosion Hazard Information
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Flash Point Method: COC

Flash Point: =224.C, 435.2F

Autoignition Temp Text: N/D

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, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.

Unusual Fire/Explosion Hazard: DENSE SMOKE MAY BE GENERATED WHILE BURNING. TOXIC FUMES, GASES, VAPORS MAY EVOLVE ON BURNING. HEAVY FLAMMABLE VAPORS MAY SETTLE ALONG GR

OUND LEVEL AND LOW SPOTS, CREATING AN INVISIBLE FIRE HAZARD.

THE VAPORS MAY EXTEND TO SOURCES OF IGNITION AND FLASH BACK. EXPLOSION DATA: CARE SHOULD BE EXERCISED IN DUST/MIST AREAS.

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Control Measures
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Respiratory Protection: NONE REQUIRED IF AIRBORNE CONCENTRATIONS ARE MAINTAINED BELOW THRESHOLD LIMITS. OTHERWISE A RESPIRATORY PROTECTION PROGRAM MEETING OSHA 1910.134 AND ANSI Z

88.2 REQUIREMENTS MUST BE FOLLOWED. WHERE MIST ING
MAY OCCUR, WEAR AN MSHA/NIOSH APPROVED (OR EQUIVALENT) HALF-MASK FORM
DUST/MIST AIR-PURIFYING RESPIRATOR.

Ventilation: LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION AS REQUIRED TO
MAINTAIN EXPOSURE LEVELS.

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

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

Other Protective Equipment: USE AN APRON AND OVER-BOOTS OF CHE
MICAL IMPERVIOUS

MATERIALS (NEOPRENE, NITRILE RUBBER). FOR HOT MATERIAL USE INSULATED
PROTECTIVE EQUIPMENT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE IN
AREA.

Work Hygienic Practices: WASH HANDS WITH SOAP AND WATER BEFORE EATING,
DRINKING, SMOKING. CONSUMPTION OF FOOD AND DRINK SHOULD BE AVOIDED IN WORK
AREAS WHERE PRODUCT IS PRESENT.

Supplemental Safety and Health: (CONTD. FROM "FIRST AID") VOMITING. GIVE 2
GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERS
ON. IF

VOMITING OCCURS LOWER HEAD BELOW KNEES TO AVOID ASPIRATION. GET MEDICAL
ATTENTION.

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Physical/Chemical Properties
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HCC: V6

Boiling Point: >260.C, 500.F

B.P. Text: ESTIMATED

Vapor Pres: NEGLIGIBLE

Vapor Density: > 1(AIR=1

Spec Gravity: 0.888 @ 15.6C(7.39 LB/GAL

Viscosity: 13.9 CST AT 100C (212)

Evaporation Rate & Reference: NEGLIGIBLE AT STP

Solubility in Water: NEGLI

GIBLE

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

Percent Volatiles by Volume: NEGL. AT STP

Corrosion Rate: UNKNOWN

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Reactivity Data
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Stability Indicator: YES

Stability Condition To Avoid: MATERIAL IS STABLE AT ROOM TEMPERATURE AND
PRESSURE. AVOID HIGH TEMPERATURES AND PRODUCT CONTAMINATION.

Materials To Avoid: AVOID CONTACT WITH ACIDS AND OXIDIZING M

ATERIALS.

Hazardous Decomposition Products: SMOKE, CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES OF INCOMPLETE COMBUSTION. OXIDES OF C, ZN, CA, MG, P, AND S. HYDROGEN 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, DERM

AL, CHRONIC, AND REPRODUCTIVE TOXICITY:

NOT DETERMINED. CARCINOGENICITY AND TERATOGENICITY: NOT DETERMINED.

INHALATION TOXICITY: ON RARE OCCASIONS, PROLONGED AND REPEATED EXPOSURE TO OIL MIST POSES A RISK OF PULMONARY DISEASE SUCH AS CHRONIC LUNG

INFLAMMATION. DERMAL SENSITIZATION: PROLONGED OR REPEATED CONTACT MAY MAKE SKIN MORE SENSITIVE TO OTHER SKIN SENSITIZERS. MUTAGENICITY: MFR DOES NOT BELIEVE THAT THERE IS ANY MUTAGENIC RISK TO WORKERS EXPOSED TO THIS PRODUCTS CONCENTRATION

OF ZDP.

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Ecological Information
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Ecological: THIS MATERIAL MAY BE TOXIC TO AQUATIC ORGANISMS AND SHOULD BE KEPT OUT OF SEWAGE AND DRAINAGE SYSTEMS AND ALL BODIES OF WATER. ENVIRONMENTAL FATE: NO DATA AVAILABLE. (CONTD. FROM "SPILL RELEASE") NON- SPARKING VACUUM PUMPS, SHOVELS, OR BUCKETS AND DISPOSED OF IN SUITABLE CONTAINERS FOR DISPOSAL. IF A LARGE SPILL OCCURS NOTIFY APPROPRI

ATE AUTHORITIES. IF SPILLED

MATERIAL IS CLEANED UP USING A REGULATED SOLVENT, THE RESULTING WASTE MIXTURE MAY BE REGULATED. SPILL ON WATER: REMOVE FROM SURFACE BY SKIMMING OR WITH SUITABLE ADSORBENTS. IF A LARGE SPILL OCCURS NOTIFY APPROPRIATE AUTHORITIES.

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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 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 <0.10%.

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Other Information
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Other Information: NFPA 704 RATING: HEALTH: 1 (SLIGHT); FIRE: 1 (SLIGHT);
REACTIVITY: 0 (MINIMAL); SPECIFIC HAZARD: NONE; PROTECTION INDEX: N/A;
NPCA-: HEALTH: 1 (SLIGHT); FIRE: 1 (SLIGHT); REACTIVITY: 0 (MINIMAL);
SPECIFIC HAZARD: N/A; PROTECTIVE INDEX: B. PREAUTIONARY LABELS: WARNINGS -
NONE REQUIRED.

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Transportation Information

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Responsible Party Cage: 1RU67

Trans I

D NO: 156261

Product ID: GARDFLEET SAE 15W-40

MSDS Prepared Date: 03/24/1998

Review Date: 03/15/2001

MFN: 1

Net Unit Weight: 1.9 LB

Multiple KIT Number: 0

Unit Of Issue: QT

Container QTY: B

Type Of Container: QUART

Additional Data: TRANSPORTATION DATA PER MANUFACTURER'S MSDS.

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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 TRANSPORTATIO
N

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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: GARDFLEET SAE 15W-40

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: 03/15/2001
Status Code: A
Label Date: 03/15/2001
Origination Code: F
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: CAUTION
Health Hazard: Slight
Contact Hazard: Slight
Fire Hazard: Slight
Reactivity Hazard: None

Hazard And Precautions: EYE CONTACT: PRODUCT NOT EXPECTED TO CAUSE IRRITATION. PROLONGED CONTACT MAY CAUSE MILD EYE DISCOMFORT. SKIN CONTACT: PRODUCT NOT EXPECTED TO CAUSE IRRITATION. PROLONGED OR REPEATED CONTACT MAY LEAD TO AN ALLERGIC SKIN SENSITIZATION IN SOME PEOPLE AND DERMATITIS. INHALATION: HOT MATERIAL MAY CAUSE NON SPECIFIC DISCOMFORT, SUCH AS NAUSEA, HEADACHE, OR WEAKNESS. INGESTION: DUE TO EXPECTED CONCENTRATION OF OIL (70-100%) INGESTION IS EXPECTED TO BE RELATIVELY NON-TOXIC UNLESS LUNG ASPIRATION OCCURS WHICH MAY LEAD TO CHEMICAL PNEUMONITIS. PRODUCT HAS LAXATIVE PROPERTIES AND MAY RESULT IN ABDOMINAL CRAMPS AND DIARRHEA.

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