

UNIMARK OIL COMPANY (FORMERLY -- GARD HIGH PERFORMANCE MOTOR OIL SAE 5W-30 (DR

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MSDS Safety Information
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FSC: 9150

NIIN: 01-422-9326

MSDS Date: 03/24/1998

MSDS Num: CKZGC

Product ID: GARD HIGH PERFORMANCE MOTOR OIL SAE 5W-30 (DRUMS)

MFN: 02

Responsible Party

Cage: 3K676

Name: UNIMARK OIL COMPANY (FORMERLY GARD OIL)

Address

: 2727 ROE LANE

City: KANSAS CITY KS 66103-1543

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

Emergency Phone Number: 913-236-5000

Preparer's Name: MICHAEL S. MCLEMORE

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: 3K676

Name: UNIMARK OIL COMPANY (FORMERLY GARD OIL)

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Item Description Information
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Item Manager: S9G

Item Name: LUBRICATING OIL,ENGINE

Specification Number: A-A-52039

Type/Grade/Class: 5W-30

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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Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: EYE CONTACT: NOT NORMALLY EXPECTED TO CAUSE IRRITATION. PROLONGED CONTACT MAY CAUSE MILD EYE DISCOMFORT, TEARING, OR BLURRING OF VISION. SKIN CONTACT: NOT EXPECTED TO CAUSE IRRITATION. PROLONGED OR REPEATED CONTACT MAY LEAD TO

ALLERGIC SKIN SENSITIZATION AND DERMATITIS

(DRYNESS, CHAPPING AND REDDENING OF SKIN). INHALATION: OVEREXPOSURE OF HOT MATERIAL MAY CAUSE NONSPECIFIC DISCOMFORT, NAUSEA, HEADACHE, OR WEAKNESS. INGESTION: NON-TOXIC UNLESS LUNG ASPIRATION OCCURS. ASPIRATION LEADS TO CHEMICAL PNEUMONITIS, PULMONARY EDEMA AND HEMMORRHAGE. MAY BE FATAL. PRODUCT HAS LAXATIVE PROPERTIES AND MAY RESULT IN ABDOMINAL CRAMPS AND DIARRHEA.

Explanation Of Carcinogenicity: NONE OF THE OILS IN THIS PRODUCT REQUIRE

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CANCER WARNING UNDER OSHA (29 CFR 1910.1200). THESE OILS HAVE NOT BEEN LISTED IN THE NTP ANNUAL REPORT NOR HAVE THEY BEEN CLASSIFIED BY 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: EYES: MILD EYE DISCOMFORT, TEARING, BLURRING OF VISION. SKIN: ALLERGIC SKIN SENSITIZATION, DERMATITIS, DRYNESS, CHAPPING, REDDENING. INHALATION: DISCOMFORT, NAUSEA, HEADACHE, WEAKNESS.

INGESTION: NON-TOXIC UNLESS LUNG ASPIRATION OCCURS. ASPIRATION LEAD TO CHEMICAL PNEUMONITIS, PULMONARY EDEMA, HEMMORRHAGE, AND MAY BE FATAL. SIGNS OF LUNG INVOLVEMENT: INCREASED RESPIRATORY RATE, INCREASED HEART RATE, BLuish DISCOLORATION OF SKIN, COUGHING, CHOCKING, GAGGING, GASTROINTESTINAL DISCOMFORT, VOMITING. PRODUCT HAS LAXATIVE PROPERTIES RESULTING IN ABDOMINAL CRAMPS AND DIARRHEA.

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid: EYE CON

TACT: FLUSH WITH LARGE AMOUNTS OF WATER, CONTINUE UNTIL

IRRITATION SUBSIDES. IF IRRITATION PERSISTS, CALL A PHYSICIAN. IF MATERIAL IS HOT, TREAT FOR THERMAL BURNS AND TAKE VICTIM TO HOSPITAL. SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING AND LAUNDRER BEFORE REUSE. WASH EXPOSED SKIN AREA

WITH SOAP AND WATER. IF REDNESS OR IRRITATION OCCURS, SEEK MEDICAL ATTENTION. IF MATERIAL IS HOT, SUBMERGE INJURED AREA IN COLD WATER. IF VICTIM IS SEVERELY BURNED, REMOVE TO HOSPITAL. INHALATION: MOVE

TO FRESH AIR.

USE OXYGEN IF BREATHING IS DIFFICULT OR ARTIFICIAL RESPIRATION IF NOT BREATHING. SEEK MEDICAL (CONTD. SEE "ECOLOGICAL")

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Handling and Disposal
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Spill Release Procedures: TURN OFF SOURCES OF IGNITION. EVACUATE AND VENTILATE AREA. PERSONNEL WEARING PROTECTIVE EQUIPMENT SHOULD CONTAIN SPILL WITH INERT MATERIALS. PREVENT MATERIAL FROM ENTERING SEWERS OR WATERWAYS. IF

A LARGE

SPILL OCCURS NOTIFY APPROPRIATE AUTHORITIES. PICK UP DIKED SPILL USING EXPLOSION PROOF, NON-SPARKING VACUUM PUMPS, SHOVELS, OR BUCKETS, AND DISPOSE OF IN SUITABLE CONTAINERS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: UNDER RCRA IT IS RESPONSIBILITY OF USER TO DETERMINE AT TIME OF DISPOSAL WHETHER PRODUCT MEETS RCRA CRITERIA FOR HAZARDOUS WASTE. WASTE MANAGEMENT SHOULD BE IN FULL COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS. CONTACT LOCAL

ENVIRONMENTAL OR HEALTH AUTHORITIES FOR APPROVED DISPOSAL OF THIS MATERIAL. 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. STORE CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME, OR OXIDIZING MATERIALS.

Other Precautions: SEE NFPA 30 AND OSHA 1910.106--FLAMMABLE AND COMBUSTIBLE LIQUIDS. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE

WHICH MAY EXHIBIT HAZARDS OF

MATERIAL, THEREFORE DO NOT PRESSURIZE, CUT, GLAZE, WELD OR USE FOR ANY OTHER PURPOSES. RETURN DRUMS TO RECLAMATION CENTERS FOR PROPER CLEANING AND REUSE.

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Fire and Explosion Hazard Information
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Flash Point Method: COC

Flash Point: =204.4C, 400.F

Autoignition Temp Text: N/D

Lower Limits: N/D

Upper Limits: 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; 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 INVISI

BLE FIRE

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

Control Measures

Respiratory Protection: NONE REQUIRED IF AIRBORNE CONCENTRATIONS ARE MAINTAINED BELOW THRESHOLD LIMITS. OTHERWISE A RESPIRATORY PROTECTION PROGRAM MEETING OSHA 1910.134 AND ANZI ZB8.2 REQUIREMENTS MUST BE FOLLOWED. WHERE MISTING MAY OCCUR, WEAR AN MSHA/NIOSH APPROVED (OR EQUIVALENT) HALF-MASK FORM DUST/MIST AIR PURIFYING RESPIRATOR.

Ventilation: MECHANICAL METHODS SUCH AS FUME HOODS OR AREA FANS MAY BE USED TO REDUCE LOCALIZED VAPOR/MIST AREAS.

Protective Gloves: NEOPRENE OR NITRILE RUBBER, TO AVOID SKIN SENSITIZATION AND ABSORPTION.

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

Other Protective Equipment: USE OF AN APRON AND OVER-BOOTS OF CHEMICALLY IMPERVIOUS MATERIALS, N

EOPRENE OR NITRILE RUBBER RECOMMENDED TO AVOID SKIN SENSITIZATION. IF HANDLING HOT MATERIAL USE INSULATED PROTECTIVE EQUIPMENT.

Work Hygienic Practices: CONSUMPTION OF FOOD AND DRINK SHOULD BE AVOIDED IN WORK AREAS WHERE PRODUCT IS PRESENT. ALWAYS WASH HANDS AND FACE WITH SOAP AND

WATER BEFORE EATING, DRINKING, OR SMOKING.

Supplemental Safety and Health: IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTI

CE MUST BE PROVIDED TO MAINTAIN CONCENTRATIONS BELOW THE SPECIFIED EXPOSURE. EYEWASH STATIONS AND SHOWERS SHOULD BE AVAILABLE IN AREAS WHERE THIS MATERIAL IS USED AND STORED.

Physical/Chemical Properties

HCC: V6

Boiling Point: >260.C, 500.F

B.P. Text: EXPECTED TO BE

Vapor Pres: NEGLIGIBLE 25C AT 1 ATM.

Vapor Density: > 1 AT STP

Spec Gravity: 0.873 AT 15.6C(60F)

Viscosity: 1

0.5 CST AT 100C(212F)

Evaporation Rate & Reference: NEGLIGIBLE AT STP

Solubility in Water: NEGLIGIBLE.

Appearance and Odor: AMBER, CLEAR FLUID, MILD PETROLEUM HYDROCARBON ODOR.

Percent Volatiles by Volume: NEGLI AT STP

Corrosion Rate: UNKNOWN

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Reactivity Data
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Stability Indicator: YES

Stability Condition To Avoid: MATERIAL STABLE AT ROOM TEMPERATURE AND PRESSURE.

AVOID HIGH TEMPER

ATURES 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 CARBON, ZINC, CALCIUM,

MAGNESIUM, PHOSPHORUS AND SULFUR, HYDROGEN SULFIDE, ALKYL MERCAPTANS, OTHER
SULFIDES.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NONE. WILL NOT OCCUR.

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Tox
icological Information
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icological Information

Toxicological Information: PRODUCT CONTAINS ZINC ALKYL DITHIOPHOSPHATES (ZDP).

SEVERAL ZDPS HAVE BEEN REPORTED TO HAVE WEAK MUTAGENIC ACTIVITY IN CULTURED

MAMMALIAN CELLS BUT ONLY AT CONCENTRATIONS THAT WERE TOXIC TO THE TEST C

ELLS. WE DO NOT BELIEVE THAT THERE IS ANY MUTAGENIC RISK TO WORKERS EXPOSED

TO THIS PRODUCT'S CONCENTRATION LEVEL OF ZDP. NONE OF THE OILS REQUIRE A

CANCER WARNING UNDER OSHA, 29 CFR

1910.1200. NOT LI STED IN NTP ANNUAL

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PROBABLY CARCINOGENIC TO HUMANS (GROUP 2A) NOR POSSIBLY CARCINOGENIC TO

HUMANS (GROUP 2B).

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Ecological Information
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Ecological: ENVIRONMENTAL TOXICITY:THIS MATERIAL MAY BE TOXIC TO AQUATIC

ORGANISMS AND SHOULD BE KEPT OUT OF SEWAGE AND DRAINAGE SYSTEMS AND ALL

BODIES O

F WATER. ENVIRONMENTAL FATE: NO DATA AVAILABLE. (CONTD. FRO M "FIRST AID") ATTENTION IF NECESSARY. INGESTION: DO NOT INDUCE VOMITING DUE TO ASPIRATION HAZARD. IMMEDIATELY GIVE 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF VOMITI NG OCCURS LOWER HEAD BETWEEN KNEES TO AVOID ASPIRATION. SEEK IMMEDIATE MEDICAL ATTENTION.

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MSDS Transport Information
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Regulatory Information
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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 (HAZAR D): 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; PROTECTIVE INDEX: N/A. NPCA-RATING: HEALTH: 1 (SLIGHT); FIRE: 1 (SLIGHT); REACTIVITY:0 (MINI MAL); SPECIFIC HAZARD: N/A; PROTECTION INDEX: B. PRECAUTIONARY LABELS: WARNING: NONE REQUIRED. CLEAN WATER ACT/OIL POLLUTION ACT: SECTION 311 OF CLEAN WATER

ACT (40 CFR 110) AND OIL POLLUTION CONTROL A CT OF 1990, THIS MATERIAL IS CONSIDERED AN OIL. SPILLS OR DISCHARGES THAT PRODUCE A SHEEN OR FILM ON WATER SURFACE, WATERWAYS, DITCHES, SEWERS LEADING TO SURFACE WATER MUST BE REPORTED. CONTACT NATION AL RESPONSE CENTER AT 800-424-8802.

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Transportation Information
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Responsible Party Cage: 3K676
Trans ID NO: 156119
Product ID: GARD HIGH
PERFORMANCE MOTOR OIL SAE 5W-30 (DRUMS)
MSDS Prepared Date: 03/24/1998
Review Date: 03/01/2001
MFN: 2
Net Unit Weight: 401 LB
Multiple KIT Number: 0
Unit Of Issue: DR
Container QTY: 1
Type Of Container: DRUM
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 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
=====

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: GARD HIGH PERFORMANCE MOTOR OIL SAE 5W-30 (DRUMS)

Cage: 3K676

Company Name: UNIMARK OIL COMPANY (FORMERLY GARD OIL)

Street: 2727 ROE LANE

City: KANSAS CITY KS

Zipcode: 66103-1543

Health E

Emergency Phone: 913-236-5000

Label Required IND: Y

Date Of Label Review: 03/01/2001

Status Code: A

Label Date: 03/01/2001

Origination Code: F

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 CONTACT: NOT EXPECTED TO CAUSE IRRITATION.

PROLONGED CONTACT MAY CAUSE MILD DISCOMFORT, TEARING, BLURRING OF VISION. SKIN CONTACT: NOT E

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