

1FID: 00325930
VER DATE: 1996-03-18

C H E M I S T R I DATE: 10/22/02
MATERIAL SAFETY DATA SHEET TIME: 19:02:43
PAGE: 0001

SECTION 01: CHEMICAL PRODUCT & COMPANY ID

PRODUCT PRIMARY NAME: 02276 SYNTHETIC FUEL EFFICIENT GL 75W-90

ALL SYNONYMS : LGR1024

OEM SYNTHETIC FUEL EFFICIENT 75W-90

OL-248

PMRV0332

SFEGE

SYNTHETIC AXLE LUBRICANT SAE 75W-90

SYNTHETIC FUEL EFFICIENT GL 75W-90 (FORMER)

TPW1857

02276 OEM SYNTHETIC FUEL EFFICIENT 75W-90 (FORMER)

02276 SYNTHETIC FUEL EFFICIENT GL 75W-90

02276 SYNTHETIC FUEL EFFICIENT GL 75W-90 (FORMER)

02276ET (MSDS NO.)

10-4016

12378261

12378525

2276 OEM SYNTHETIC FUEL EFFICIENT 75W-90

2321

331681 (OLD FID)

773129

88900401

901514

911599

9986115

SAFE USE CATEGORY AND DESCRIPTION: 04 -METAL WORKING FLUIDS AND
LUBRICANTS

LAST UPDATED DATE: 1998-07-22

MANUFACTURER'S ID (MID): 000556552

MANUFACTURER'S NAME: EQUILON ENTERPRISES LLC

MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 877-276-7283

US 800-424-9300

MANUFACTURER'S MAILING ADDRESS:

(SHELL AND TEXACO MERGER)

P.O. BOX 674414

HOUSTON TX 77267-4414

US

CHEMICAL FAMILY NAME: GEAR OILS

CHEMICAL NAME: GEAR OILS

SECTION 1 - OTHER INFORMATION: ***EMERGENCY OVERVIEW***: APPEARANCE:
AMBER LIQUID. ODOR: MILD ODOR. // WARNING STATEMENT: NONE CONSIDERED
NECESSARY.

SECTION 02: COMPOSITION & INGREDIENT INFO

CAS#	FORMULATION	W/V	CHEMICAL NAME
009003274	R 20.0000/ 25.0000%	W	PROPENE, 2-METHYL-, POLYMERS
064051292	R 1.0000/ 5.0000%	W	Phosphonic acid, di-9-octadecenyl ester
064741975	R 5.0000/ 10.0000%	W	MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-REFINED (severe) LIGHT NAPHTHENIC
068649127	R 55.0000/ 60.0000%	W	1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated
071888910	R 1.0000/ 5.0000%	W	Amines, C12-14-tert-alkyl, reaction products with O,O-di-C1-14-alkyl hydrogen phosphorodithioate
084605209	R 1.0000/ 5.0000%	W	Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs.

SECTION 2 - OTHER INFORMATION: POLYISOBUTYLENE AND ALKYLAMINE SALT OF DIALKYL DITHIOPHOSPHORIC ACID ARE HAZARDOUS ACCORDING TO OSHA. // SOLVENT-REFINED LIGHT NAPHTHENIC PETROLEUM DISTILLATE IS CONSIDERED HAZARDOUS ACCORDING TO OSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST// EXPOSURE LIMIT FOR TOTAL PRODUCT: NONE ESTABLISHED FOR PRODUCT.

THRESHOLD LIMIT VALUE: ACGIH: 64741975: 5 MG/M3 (MINERAL OIL MIST), 10 MG/M3 STEL (MINERAL OIL MIST).

PERMISSIBLE EXPOSURE LIMIT: OSHA: 64741975: 5 MG/M3 (MINERAL OIL MIST)

CERCLA (SUPERFUND) REPORTABLE QUANTITY (LBS): 1000 TOLUENE, 1000 LBS

SECTION 03: HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTE INDICATORS:

SKIN PRIMARY ENTRY ROUTE INDICATOR =	Y
EYE PRIMARY ENTRY ROUTE INDICATOR =	Y
INHALATION PRIMARY ENTRY ROUTE INDICATOR =	Y

EFFECTS OF OVEREXPOSURE - SKIN ACUTE: BRIEF CONTACT IS NOT IRRITATING. PROLONGED CONTACT, AS WITH CLOTHING WETTED WITH MATERIAL, MAY CAUSE DEFATTING OF SKIN OR IRRITATION, SEEN AS LOCAL REDNESS WITH POSSIBLE MILD DISCOMFORT. // OTHER THAN THE POTENTIAL SKIN IRRITATION EFFECTS NOTED, ACUTE (SHORT TERM) ADVERSE EFFECTS ARE NOT EXPECTED FROM BRIEF SKIN CONTACT; SEE OTHER EFFECTS AND SECTION 11 FOR INFORMATION REGARDING POTENTIAL LONG TERM EFFECTS.

EFFECTS OF OVEREXPOSURE - EYE ACUTE: MAY CAUSE MINIMAL IRRITATION, EXPERIENCED AS TEMPORARY DISCOMFORT.

EFFECTS OF OVEREXPOSURE - INHALATION ACUTE: VAPORS OR MIST, IN EXCESS OF PERMISSIBLE CONCENTRATIONS, OR IN UNUSUALLY HIGH CONCENTRATIONS GENERATED FROM SPRAYING, HEATING THE MATERIAL OR AS FROM EXPOSURE IN POORLY VENTILATED AREAS OR CONFINED SPACES, MAY CAUSE IRRITATION OF THE NOSE AND THROAT, HEADACHE, NAUSEA, AND DROWSINESS.

EFFECTS OF OVEREXPOSURE - INGESTION ACUTE: IF MORE THAN SEVERAL MOUTHFULS ARE SWALLOWED, ABDOMINAL DISCOMFORT, NAUSEA, AND DIARRHEA MAY OCCUR.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: BECAUSE OF ITS DEFATTING

PROPERTIES, PROLONGED AND REPEATED SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS (SKIN CONDITION).

ADDITIONAL HEALTH HAZARD DATA: WHEN OVERHEATED, PRODUCT MAY RELEASE HYDROGEN SULFIDE (H₂S) GAS. H₂S CONCENTRATIONS ABOVE PERMISSIBLE CONCENTRATIONS CAN CAUSE IRRITATION OF THE EYES AND RESPIRATORY TRACT, HEADACHE, DIZZINESS, NAUSEA, VOMITING, DIARRHEA AND PULMONARY EDEMA. AT CONCENTRATIONS ABOVE 300 PPM, RESPIRATORY PARALYSIS, CAUSING UNCONSCIOUSNESS AND DEATH, CAN OCCUR.

SECTION 3 - OTHER INFORMATION: SENSITIZATION PROPERTIES: UNKNOWN.

SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - SKIN: WASH SKIN WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. GET MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS OR PERSISTS.

EMERGENCY FIRST AID PROCEDURES - EYES: FLUSH EYES WITH PLENTY OF WATER FOR SEVERAL MINUTES. GET MEDICAL ATTENTION IF EYE IRRITATION PERSISTS.

EMERGENCY FIRST AID PROCEDURES - INHALATION: IF IRRITATION, HEADACHE, NAUSEA, OR DROWSINESS OCCURS, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING BECOMES DIFFICULT OR RESPIRATORY IRRITATION PERSISTS.

EMERGENCY FIRST AID PROCEDURES - INGESTION: IF MORE THAN SEVERAL MOUTHFULS OF THIS MATERIAL ARE SWALLOWED, GIVE TWO GLASSES OF WATER (16 OZ.). GET MEDICAL ATTENTION.

SECTION 4 - OTHER INFORMATION: OTHER INSTRUCTIONS: NONE.

SECTION 05: FIRE-FIGHTING MEASURES

FLAMMABLE LEL: ND 0.00
FLAMMABLE UEL: ND 0.00

EXTINGUISHING MEDIA: USE WATER SPRAY, DRY CHEMICAL, FOAM, OR CARBON DIOXIDE TO EXTINGUISH FLAMES. // EXTINGUISHING MEDIA WHICH MUST NOT BE USED: NOT DETERMINED. // USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. WATER OR FOAM MAY CAUSE FROTHING.

SPECIAL FIRE FIGHTING PROCEDURES: NO SPECIAL EQUIPMENT OR PROCEDURES REQUIRED.

UNUSUAL FIRE AND EXPLOSION HAZARDS: HYDROGEN SULFIDE (H₂S) MAY BE RELEASED IF OVERHEATED.

HMIS CODES:

HMIS REACTIVITY CODE =	0
HMIS HEALTH CODE =	0
HMIS FLAMMABILITY CODE =	1
NFPA CODES:	
NFPA FLAMMABILITY CODE =	1
NFPA HEALTH CODE =	0
NFPA REACTIVITY CODE =	0

AUTO-IGNITION TEXT: NOT APPLICABLE.

FLASH POINT TEMPS: > 212.00F
FLASH POINT METHOD: PMCC

SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: VENTILATE AREA. AVOID BREATHING VAPOR. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, INCLUDING APPROPRIATE RESPIRATORY PROTECTION. CONTAIN SPILL IF POSSIBLE. WIPE UP OR ABSORB ON SUITABLE MATERIAL AND SHOVEL UP. PREVENT ENTRY INTO SEWERS AND WATERWAYS. AVOID CONTACT WITH SKIN, EYES OR CLOTHING.

SECTION 6 - OTHER INFORMATION: IF MORE THAN 1,615,195 POUNDS OF PRODUCT IS SPILLED, THEN REPORT SPILL ACCORDING TO SARA 304 AND/OR CERCLA 102(A) REQUIREMENTS, UNLESS PRODUCT QUALIFIES FOR THE PETROLEUM EXEMPTION (CERCLA SECTION 101(14)).

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: HANDLING: MINIMUM FEASIBLE HANDLING TEMPERATURES SHOULD BE MAINTAINED. // STORAGE: PERIODS OF EXPOSURE TO HIGH TEMPERATURES SHOULD BE MINIMIZED. WATER CONTAMINATION SHOULD BE AVOIDED.

SECTION 08: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: SAFETY GLASSES, CHEMICAL TYPE GOGGLES, OR FACE SHIELD RECOMMENDED TO PREVENT EYE CONTACT.

SKIN PROTECTION: WORKERS SHOULD WASH EXPOSED SKIN SEVERAL TIMES DAILY WITH SOAP AND WATER. SOILED WORK CLOTHING SHOULD BE LAUNDERED OR DRY-CLEANED.

RESPIRATORY PROTECTION: AIRBORNE CONCENTRATIONS SHOULD BE KEPT TO LOWEST LEVELS POSSIBLE. IF VAPOR, MIST OR DUST IS GENERATED AND THE OCCUPATIONAL EXPOSURE LIMIT OF THE PRODUCT, OR ANY COMPONENT OF THE PRODUCT, IS EXCEEDED, USE APPROPRIATE NIOSH OR MSHA APPROVED AIR PURIFYING OR AIR SUPPLIED RESPIRATOR AFTER DETERMINING THE AIRBORNE CONCENTRATION OF THE CONTAMINANT. AIR SUPPLIED RESPIRATORS SHOULD ALWAYS BE WORN WHEN AIRBORNE CONCENTRATION OF THE CONTAMINANT OR OXYGEN CONTENT IS UNKNOWN.

VENTILATION: ADEQUATE TO MEET COMPONENT OCCUPATIONAL EXPOSURE LIMITS.

SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

THEORETICAL VOC WITHOUT WATER: VOC CONTENT: NOT APPLICABLE.

BOILING POINT TEXT: NOT APPLICABLE.

MELTING/FREEZE POINT TEXT: NOT APPLICABLE.

SPECIFIC GRAVITY VALUES: = 0.8600

VAPOR DENSITY TEXT: NOT APPLICABLE.

VAPOR PRESSURE TEXT: NOT APPLICABLE.

SOLUBILITY IN WATER TEXT: NOT APPLICABLE.

PH OF PRODUCT AS RECEIVED (NEAT)/TEXT: NOT APPLICABLE.

APPEARANCE: AMBER LIQUID

ODOR: MILD

VISCOSITY TEXT: 95 CST AT 40.0 C

PHYSICAL STATE: LIQ

SECTION 9 - OTHER INFORMATION: OTHER: NONE

SECTION 10: STABILITY & REACTIVITY

INCOMPATIBLE MATERIALS: THIS MATERIAL REACTS VIOLENTLY WITH: STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS: PRODUCTS EVOLVED WHEN SUBJECTED TO HEAT OR COMBUSTION: TOXIC LEVELS OF CARBON MONOXIDE, CARBON DIOXIDE, IRRITATING ALDEHYDES AND KETONES, AND COMBUSTION PRODUCTS OR COMPOUNDS OF SULFUR (MAY INCLUDE HYDROGEN SULFIDE), NITROGEN.

HAZARDOUS POLYMERIZATION INDICATOR: N
HAZARDOUS POLYMERIZATION TEXT: DO NOT OCCUR.

SECTION 10 - OTHER INFORMATION: UNDER EXTREME TEMPERATURES OR EXTENDED STORAGE PERIODS, HYDROGEN SULFIDE (H₂S) GAS MAY ACCUMULATE IN THE HEAD-SPACE OF CONTAINER.

SECTION 11: TOXICOLOGICAL INFORMATION

EYE EFFECTS: (DRAIZE) BELIEVED TO BE <15.00/110 (RABBIT) NO APPRECIABLE EFFECT.

SKIN EFFECTS: MEDIAN LETHAL DOSE: (ANIMAL) D50 BELIEVED TO BE >2.00 G/KG (RABBIT) PRACTICALLY NON-TOXIC // (DRAIZE) BELIEVED TO BE <.50/8.0 (RABBIT) NO APPRECIABLE EFFECT.

ACUTE ORAL EFFECTS: MEDIAN LETHAL DOSE: (ANIMAL) ORAL: LD50 BELIEVED TO BE >5.00 G/KG (RAT) PRACTICALLY NON-TOXIC.

ACUTE INHALATION EFFECTS: NOT DETERMINED.

CHRONIC EFFECTS: NO ADVERSE EFFECTS HAVE BEEN DOCUMENTED IN HUMANS AS A RESULT OF CHRONIC EXPOSURE. SECTION 11 MAY CONTAIN APPLICABLE ANIMAL DATA.

CARCINOGENICITY: NONE OF THE INGREDIENTS ARE CARCINOGENIC BY NTP, IARC OR OSHA.

ALLERGEN OR SENSITIVITY: UNKNOWN.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: AQUATIC TOXICITY: NOT DETERMINED. MOBILITY: NOT DETERMINED. PERSISTENCE AND BIODEGRADABILITY: NOT DETERMINED. POTENTIAL TO BIOACCUMULATE: NOT DETERMINED.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: THIS PRODUCT HAS BEEN EVALUATED FOR RCRA CHARACTERISTICS AND DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE IF DISCARDED IN ITS PURCHASE FORM. UNDER RCRA, IT IS THE RESPONSIBILITY OF THE USER OF THE PRODUCT TO DETERMINE AT THE TIME OF DISPOSAL, WHETHER THE PRODUCT MEETS RCRA CRITERIA FOR HAZARDOUS WASTE. THIS IS BECAUSE PRODUCT USES TRANSFORMATIONS, MIXTURES, PROCESSES, ETC. MAY RENDER THE RESULTING MATERIALS HAZARDOUS.

SECTION 13 - OTHER INFORMATION: REMARKS: NONE

SECTION 14: TRANSPORT INFORMATION

SHIPPING NAME: NOT REGULATED

SECTION 14 - OTHER INFORMATION: IMDG: PROPER SHIPPING NAME: NOT REGULATED ICAO: PROPER SHIPPING NAME: NOT REGULATED. TDG: PROPER SHIPPING NAME: NOT REGULATED.

SECTION 15: REGULATORY INFORMATION

SECTION 15 - OTHER INFORMATION: POLYISOBUTYLENE IS HAZARDOUS ACCORDING TO OSHA. SOLVENT-REFINED LIGHT NAPHTHENIC PETROLEUM ACID BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO OSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST. // SARA TITLE III: SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCES: NONE. // SECTION 311 HAZARDOUS CATEGORIZATION: NOT APPLICABLE. // SECTION 313 TOXIC CHEMICAL: NONE. // CERCLA 102(A)/DOT HAZARDOUS SUBSTANCES: TOLUENE, 1000 LBS // THIS PRODUCT IS LISTED ON THE TOXIC SUBSTANCE CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY. // THE FOLLOWING DETECTABLE COMPONENTS OF THIS PRODUCT ARE SUBSTANCES, OR BELONG TO CLASSES OF SUBSTANCES, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE TOXICITY: TOLUENE. // STATES RIGHT-TO-KNOW REGULATIONS: TOLUENE: CONNECTICUT, FLORIDA, ILLINOIS, MASSACHUSETTS, NEW JERSEY, PENNSYLVANIA, RHODE ISLAND, MICHIGAN. SOLVENT-REFINED LIGHT NAPHTHENIC PETROLEUM DISTILLATE: MASSACHUSETTS. // WHMIS CLASSIFICATION: NOT EVALUATED. // NOT DETERMINED. // EINECS INVENTORY STATUS: NOT DETERMINED. // AUSTRALIA INVENTORY STATUS: NOT DETERMINED. // JAPAN INVENTORY STATUS: NOT DETERMINED.

SECTION 16: OTHER INFORMATION

LABEL INFORMATION: READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS. 02276 SYNTHETIC FULE EFFICIENT GL 75W-90. WARNING STATEMENT: NONE CONSIDERED NECESSARY. PRECAUTIONARY MEASURES: AVOID PROLONGED BREATHING OF VAPOR, MIST, OR GAS. WORKERS SHOULD WASH EXPOSED SKIN SEVERAL TIMES DAILY WITH SOAP AND WATER. // FIRST AID. EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER FOR SEVERAL MINUTES. GET MEDICAL ATTENTION IF EYE IRRITATION PERSISTS. SKIN CONTACT: WASH SKIN WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. GET MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS OR PERSISTS. INGESTION: IF MORE THAN SEVERAL MOUTHFULS OF THIS MATERIAL ARE SWALLOWED, GIVE TWO GLASSES OF WATER (16 OZ.). GET MEDICAL ATTENTION. INHALATION: IF IRRITATION, HEADACHE, NAUSEA, OR DROWSINESS OCCURS, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING BECOMES DIFFICULT OR RESPIRATORY IRRITATION PERSISTS. // NOTE TO PHYSICIAN: NONE. // FIRE: IN CASE OF FIRE, USE WATER SPRAY, DRY CHEMICAL, FOAM OR CARBON DIOXIDE. WATER MAY CAUSE FROTHING. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS. // IF MORE THAN 1,589,825 POUNDS OF PRODUCT IS SPILLED, THEN REPORT SPILL ACCORDING TO SARA 304 AND/OR CERCLA 102(A) REQUIREMENTS, UNLESS PRODUCT QUALIFIES FOR THE PETROLEUM EXEMPTION (CERCLA SECTION 101 (14)). // POLYALPHAOLEFIN, HYDROGENATED: 68649127, 50.00-64.99%; POLYISOBUTYLENE: 9003274, 20.00-34.99%; SOLVENT-REFINED LIGHT NAPHTHENIC PETROLEUM DISTILLATE: 64741975, 3.00-9.99%; ALKYAMINE SALT OF DIALKYL DITHIOPHOSPHORIC ACID: 71888910, 3.00-9.99%; OLEFIN SULFIDE: 72163266, 3.00-9.99%. // PRODUCT IS NON-HAZARDOUS ACCORDING TO OSHA (1910.1200). // POLYISOBUTYLENE AND ALKYL AMINE SALT OF DIALKYL DITHIOPHOSPHORIC ACID IS HAZARDOUS ACCORDING TO OSHA. SOLVENT-REFINED LIGHT NAPHTHENIC PETROLEUM DISTILLATE, BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO OSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PE) FOR MINERAL OIL MIST. // PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCE(S): NONE. // HMIS: HEALTH: 0, REACTIVITY: 0, FLAMMABILITY: 1. NFPA: HEALTH: 0, REACTIVITY: 0, FLAMMABILITY: 1. // TRANSPORTATION DOT: PROPER SHIPPING NAME: NOT DETERMINED. // CAUTION: MISUSE OF EMPTY CONTAINERS CAN BE HAZARDOUS. EMPTY CONTAINERS CAN BE HAZARDOUS IF USED TO STORE TOXIC, FLAMMABLE, OR REACTIVE MATERIALS. CUTTING OR WELDING OF EMPTY CONTAINERS MIGHT CAUSE FIRE, EXPLOSION OR TOXIC FUMES FROM RESIDUES. DO NOT PRESSURIZE OR EXPOSE TO OPEN FLAME OR HEAT. KEEP CONTAINER CLOSED AND DRUM BUNGS IN PLACE. // MANUFACTURER'S NAME AND ADDRESS: TEXACO LUBRICANTS COMPANY, A DIVISION OF TEXACO REFINING AND MARKETING INC., P.O. BOX 4427, HOUSTON, TX 77210-4427. // TRANSPORTATION EMERGENCY COMPANY: (914) 831-3400. CHEMTREC: (800) 424-9300. HEALTH EMERGENCY: COMPANY: (914) 831-3400.