

Prod.Name: TEXACO 2276 GM Synthetic Gear Oil
75W-90
Manufacturer: Chevron Products Company
HMCS ID: 353952
SUC: 04 - Metal Working Fluids and Lubricants

MATERIAL SAFETY DATA SHEET

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1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT INFORMATION

Product Name: TEXACO 2276 GM Synthetic Gear Oil 75W-90

Recommended Use:

Gear Lubricant

External Keys:

89021677 Distributable Material (Part #)
SYNTHETIC Primary Tradename - Distributable Material
AXLE
LUBRICANT
SAE 75W-90
88861188 Distributable Material (Part #)
9986115 Productive Materials
PMRV0349 PMRV
GM Synthetic Common Name
gear oil 75W-90
88900401 Distributable Material (Part #)
10-4016 Distributable Material (Part #)

MANUFACTURER INFORMATION

Manufacturer: Chevron Products Company

Address:

6001 Bollinger Canyon Road USA California 94583 San Ramon MAILING
6001 Bollinger Canyon Road USA California 94583 San Ramon Mailing

Communication Lines:

Phone 800-424-9300 Emergency (Chemtrec)
Phone 800-231-0623 Health emergency (Chevron Emergency Information Center)
Phone 703-527-3887 Emergency (Chemtrec international)
Phone 800-414-6737 MSDS requests
Phone 510-231-0623 Health emergency (Chevron Emergency Information Center)
Phone 800-LUBE-TEK Information
Internet www.chevronlubricants.com
Phone 800-424-9300
Phone 703-527-3887
Phone 510-231-5357
Phone 800-231-0623
Phone 510-231-0623

Comment:

Prepared by the Chevron Energy Technology Company, 100 Chevron Way, Richmond, California 94802.

2 INGREDIENT INFORMATION

FORMULATION

Ingredients:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Exposure Limits</u>
SYNTHETIC HYDROCARBONS	989916-74-6	Range	80 - 94.99	%Wt	No
NJT# 800967-5199 ALKENYL PHOSPHITE	989987-32-3	Range	1 - 4.99	%Wt	No

3 HAZARDS IDENTIFICATION

Hazards Overview:

EMERGENCY OVERVIEW: CAUSES SKIN IRRITATION

Specific Hazards (Routes Of Exposure):

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3 HAZARDS IDENTIFICATION

Specific Hazards (Routes Of Exposure):

<u>Exposure Routes</u>	<u>Exposure Duration</u>	<u>Observation</u>
Skin Contact	Acute	CONTACT WITH THE SKIN CAUSES IRRITATION. SYMPTOMS INCLUDE PAIN, ITCHING, DISCOLORATION, SWELLING, AND BLISTERING. NOT EXPECTED TO BE HARMFUL TO INTERNAL ORGANS IF ABSORBED THROUGH THE SKIN.
Eye Contact	Acute	NOT EXPECTED TO CAUSE PROLONGED OR SIGNIFICANT EYE IRRITATION.
Inhalation	Acute	NOT EXPECTED TO BE HARMFUL IF INHALED. CONTAINS A SYNTHETIC HYDROCARBON OIL. MAY CAUSE RESPIRATORY IRRITATION OR OTHER PULMONARY EFFECTS FOLLOWING PROLONGED OR REPEATED INHALATION OF OIL MIST AT AIRBORNE LEVELS ABOVE THE RECOMMENDED MINERAL OIL MIST EXPOSURE LIMIT. CONTAINS A PETROLEUM -BASED MINERAL OIL. MAY CAUSE RESPIRATORY IRRITATION OR OTHER PULMONARY EFFECTS FOLLOWING PROLONGED OR REPEATED INHALATION OF OIL MIST AT AIRBORNE LEVELS ABOVE THE RECOMMENDED MINERAL OIL MIST EXPOSURE LIMIT. SYMPTOMS OF RESPIRATORY IRRITATION MAY INCLUDE COUGHING AND DIFFICULTY BREATHING.
Ingestion	Acute	MAY BE IRRITATING TO MOUTH, THROAT, AND STOMACH. SYMPTOMS MAY INCLUDE PAIN, NAUSEA, VOMITING, AND DIARRHEA.

Medical Conditions Aggravated By Exposure:

Not provided.

Additional Health Hazard Data:

Skin Sensitization: No product toxicology data available.

4 FIRST AID MEASURES

First Aid By::

Inhalation	NO SPECIFIC FIRST AID MEASURES ARE REQUIRED. IF EXPOSED TO EXCESSIVE LEVELS OF MATERIAL IN THE AIR, MOVE THE EXPOSED PERSON TO FRESH AIR. GET MEDICAL ATTENTION IF COUGHING OR RESPIRATORY DISCOMFORT OCCURS.
Skin Contact	WASH SKIN WITH WATER IMMEDIATELY AND REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IF ANY SYMPTOMS DEVELOP. TO REMOVE THE MATERIAL FROM SKIN, USE SOAP AND WATER. DISCARD CONTAMINATED CLOTHING AND SHOES OR THOROUGHLY CLEAN BEFORE REUSE.
Eye Contact	NO SPECIFIC FIRST AID MEASURES ARE REQUIRED. AS A PRECAUTION, REMOVE CONTACT LENSES, IF WORN, AND FLUSH EYES WITH WATER.
Ingestion	IF SWALLOWED, GET MEDICAL ATTENTION. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

5 FIRE FIGHTING MEASURES

Flash Point:

= 273 F PMCC 134 C. (Typical)

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5 FIRE FIGHTING MEASURES

Explosive Limits:

Lower Explosive Limit (LEL)	Not Applicable	Flammability (Explosive) Limits (% by volume in air)
Upper Explosive Limit (UEL)	Not Applicable	Flammability (Explosive) Limits (% by volume in air)

Autoignition Temperature:

NO DATA AVAILABLE.

Extinguishing Media:

Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Special Fire Fighting Procedures:

This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

Comment:

FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

6 ACCIDENTAL RELEASE MEASURES

PRECAUTIONS IN CASE OF ACCIDENTAL RELEASE

Personal Precautions:

Eliminate all sources of ignition in vicinity of spilled material.

Environmental Precautions:

Contain release to prevent further contamination of soil, surface water or groundwater. Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SPILL OR LEAK PROCEDURES

Recovery:

Stop the source of the release if you can do it without risk. Clean up spill as soon as possible, observing precautions in Exposure Controls/ Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

7 HANDLING AND STORAGE

HANDLING

Safe Handling Procedures:

Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Wash thoroughly after handling. Keep out of the reach of children. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE):

Eye Protection	No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.
Skin Protection	Wear protective clothing to prevent skin contact. Selection of protective clothing may include apron, boots, and complete facial protection depending on operations conducted.
Respiratory Protection	No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.
Hand Protection	Wear protective gloves to prevent skin contact. Suggested materials for protective gloves include: 4H (PE/EVAL), Neoprene, Nitrile Rubber, Viton.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State: Liquid.

Color: AMBER.

Odor: PETROLEUM ODOR.

PHYSICAL PROPERTIES

pH Value:

Concentrate Not
Applicable

Changes of State:

Boiling Point > 500 F 260 C.

Freezing Point Not
Applicable

Melting Range Not
Applicable

Vapor Pressure:

< 0.01 mmhg AT 100 F., 37.8 C.

Vapor Density:

> 1 (AIR=1).

Evaporation Rate:

NO DATA AVAILABLE.

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9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

Density:

Density = 0.86 kg/l

Specific Gravity:

= 0.86 AT 15.6 C., 60.1 F.

Solubility:

Water INSOLUBLE. SOLUBLE IN HYDROCARBONS.

Viscosity:

Viscosity = 14.5 CST AT 100 C., 212 F.
(TYPICAL).

Comment:

The data above are typical values and do not constitute a specification.

10 STABILITY AND REACTIVITY

STABILITY INFORMATION

Stability Under Normal Conditions: Stable

Incompatible Materials:

May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Polymerization:

WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION

Reactions:Type of ReactionReaction Products

Decomposition

None known (None expected)

Thermal Decomposition

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

11 TOXICOLOGICAL INFORMATION

SCIENTIFIC OBSERVATIONS

TOXICOLOGICAL EFFECTS

Product Data:Route of Administration Comment Observed

Eye Contact	Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.
Skin Contact	Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.
Ingestion	Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.
Inhalation	Acute Inhalation Toxicity: No product toxicology data available.

CLASSIFICATION OF INGREDIENTS

Carcinogenicity:

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11 TOXICOLOGICAL INFORMATION

CLASSIFICATION OF INGREDIENTS

Carcinogenicity:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the 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). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

IARC Group 1, IARC Group 2A, IARC Group 2B, NTP Carcinogen,: No components of this material were found on the regulatory lists above.

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT

Comment:

ENVIRONMENTAL FATE

Ready Biodegradability: This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

ECOTOXICITY

Comment:

The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water. The ecotoxicity hazard is based on an evaluation of data for the components or a similar material.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Information:

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14 TRANSPORT INFORMATION

DOT Information:

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Name:

PETROLEUM LUBRICATING OIL, NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR

Comment:

Additional Information: NOT HAZARDOUS BY U.S. DOT. ADR/RID HAZARD CLASS NOT APPLICABLE.

IMO/IMDG Shipping Description: PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

15 REGULATORY INFORMATION

LABELLING

Hazard Codes:

HMIS Reactivity	0
HMIS Health	1
HMIS Flammability	1

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15 REGULATORY INFORMATION

LABELLING

Hazard Codes:

NFPA Flammability 1
NFPA Health 1
NFPA Reactivity 0

NATIONAL REGULATIONS

SARA 311/312: Yes

SARA 313: No

Immediate Health: Yes

Delayed Health: No

Fire: No

Sudden Pressure Release: No

Reactive: No

Other Regulation:

SARA 313: No components of this material were found.

TSCA: All components comply with the chemical inventory requirements.

STATE/LOCAL REGULATIONS

Comment:

CA Proposition 65, MA RTK, NJ RTK, PA RTK: No components of this material were found.

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:

PETROLEUM OIL (Gear oil)

16 OTHER INFORMATION

Comments:

LABEL RECOMMENDATION:

Label Category : INDUSTRIAL OIL 4 - IND4

Additional Comments:

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Chevron Energy Technology Company, 100 Chevron Way, Richmond, California 94802.