1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT INFORMATION

Product Name: SHELL SYNTHETIC FUEL EFF GEAR LUBE 75W-90
Product Code: 59433E
Recommended Use:
Gear lubricant
External Keys:

9986115	Productive Materials
89021677	Distributable Material (Part #)
88900401	Distributable Material (Part #)
10-4016	Distributable Material (Part #)
Synthetic Axle Lubricant SAE 75W-90	Primary Tradename - Distributable Material
88861188	Distributable Material (Part #)

MANUFACTURER INFORMATION

Manufacturer: SOPUS Products
Address:

700 Milam	USA	Texas	77002-2806	Houston	PO Box 4427 (Zip: 77210-4427)	Mailing

Communication Lines:

Phone	877-242-7400	Spill information
Phone	877-504-9351	Health information
Phone	877-276-7285	MSDS Assistance
Internet	www.pennzoil-quakerstate.com	Website (with MSDS for SOPUS Products)

2 INGREDIENT INFORMATION

FORMULATION

Ingredients:

Chemical Name	CAS Number	Prefix	Value	Unit	Exposure Limits
MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED (severe) LIGHT PARAFFINIC	64742-55-8	Range	5 - 10	%Wt	No

Comment:
Blend of severely hydrotreated slack wax, synthetic esters, polyolefins and additives.

3 HAZARDS IDENTIFICATION

Hazards Overview:
Emergency Overview

Appearance and Odour: Amber. Liquid at room temperature. Slight hydrocarbon.
Health Hazards: Not classified as dangerous for supply or conveyance.
Safety Hazards: Not classified as flammable but will burn.
Environmental Hazards: Not classified as dangerous for the environment.

Specific Hazards:
Health hazards: Not expected to be a health hazard when used under normal conditions.

Specific Hazards (Routes Of Exposure):

Exposure Routes	Observation

3 HAZARDS IDENTIFICATION

Specific Hazards (Routes Of Exposure):

Exposure Routes	Observation
Skin Contact	Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Eye Contact	May cause slight irritation to eyes.
Inhalation	Under normal conditions of use, this is not expected to be a primary route of exposure.
Ingestion	Low toxicity if swallowed.

Effects Of Overexposure:

Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.

Medical Conditions Aggravated By Exposure:

Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin.

Additional Health Hazard Data:

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Comment:

Other information: Used oil may contain harmful impurities.

4 FIRST AID MEASURES

First Aid Procedures:

Not expected to be a health hazard when used under normal conditions.

First Aid By::

Inhalation	No treatment necessary under normal conditions of use. if symptoms persist, obtain medical advice.
Skin Contact	Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
Eye Contact	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Ingestion	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

Notes To Physician:

Treat symptomatically.

5 FIRE FIGHTING MEASURES

Flash Point:

=	207	°C	CLEVELAND OPEN CUP (405 F)

Explosive Limits:

Upper Explosive Limit (UEL)	=	10	'%'
Lower Explosive Limit (LEL)	=	1	'%'

Autoignition Temperature:

>	320	°C	608 F

Extinguishing Media:

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Non Suitable Extinguishing Media:

Do not use water in a jet.

Fire and Explosion Hazards:

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon

5 FIRE FIGHTING MEASURES

Fire and Explosion Hazards:

monoxide. Unidentified organic and inorganic compounds.

Special Fire Fighting Procedures:

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6 ACCIDENTAL RELEASE MEASURES

PRECAUTIONS IN CASE OF ACCIDENTAL RELEASE

Personal Precautions:

Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

SPILL OR LEAK PROCEDURES

Recovery:

Slippery when spilt. Avoid accidents, clean up immediately.
Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

Other Precautions:

Local authorities should be advised if significant spillages cannot be contained.

Comment:

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe ail relevant local and international regulations.

7 HANDLING AND STORAGE

HANDLING

Safe Handling Procedures:

Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

STORAGE

Storage Conditions:

Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Storage Temperature: 0 - 50 °C / 32 - 122 °F

Recommended material: For containers or container linings, use mild steel or high density polyethylene.
Unsuitable material: PVC.

Additional Information on Storage Conditions:

Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:

Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

EXPOSURE LIMITS

Comment:

xposure controls: The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Monitoring Methods: Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE):

Eye Protection	Wear safety glasses or full face shield if splashes are likely to occur.
Skin Protection	Skin protection not ordinarily required beyond standard issue work clothes.
Respiratory Protection	No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65 °C (149 °F)].
Hand Protection	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Special Precautions:

Environmental exposure controls: Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State: Liquid.
Color: AMBER.
Odor: SLIGHT HYDROCARBON.

PHYSICAL PROPERTIES

pH Value:

Not Applicable

Changes of State:

Pourpoint	Approximate	-48	°C	
Initial Boiling Point	>	280	°C	ESTIMATED VALUE.

Vapor Pressure:

<	0.5	pa	=	20	°C

Vapor Density:

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL PROPERTIES

Vapor Density:

>	1	(air = 1) estimated value

Evaporation Rate:

Not Available

Density:

=	859	g/cm³ (cc)	=	15	°C

Specific Gravity:

=	0.859	Specific Gravity calculated from MSDS data by GM Tech Review.

Solubility:

WATER	Negligible

Viscosity:

Kinematic Viscosity	=	97.5	mm²/s	=	40	°C

Additional Chemical and Physical Data:

n-octanol/water partition coefficient (log pow)	>	6	(based on information on similar products)

10 STABILITY AND REACTIVITY

STABILITY INFORMATION

Stability Under Normal Conditions: Stable

Conditions to Avoid:

Extremes of temperature and direct sunlight.

Incompatible Materials:

AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION

Reactions:

Type of Reaction	Reaction Products
Decomposition	Hazardous decomposition products are not expected to form during normal storage.

11 TOXICOLOGICAL INFORMATION

OCCUPATIONAL EXPERIENCES

Health Effects:

Basis for Assessment: Information given is based on data on the components and the toxicology of similar products.
Acute Oral Toxicity: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat.
Acute Dermal Toxicity: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit.
Acute Inhalation Toxicity: Not considered to be an inhalation hazard under normal conditions of use.
Skin Irritation: Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.
Eye Irritation: Expected to be slightly irritating.
Respiratory Irritation: Inhalation of vapours or mists may cause irritation.

CLASSIFICATION OF INGREDIENTS

Carcingenicity:

Components are not known to be associated with carcinogenic effects.

Mutagenicity:

Not considered a mutagenic hazard.

Reproductive Effects:

11 TOXICOLOGICAL INFORMATION

CLASSIFICATION OF INGREDIENTS

Reproductive Effects:

Not expected to be a hazard.

Allergen Or Sensitivity:

Not expected to be a skin sensitiser.

Comment:

Repeated Dose Toxicity: Not expected to be a hazard.
Additional Information: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT

Comment:

Mobility: Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.
Persistence/degradability: Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
Bioaccumulation: Contains components with the potential to bioaccumulate.
Other adverse effects: Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

ECOTOXICITY

Comment:

Ecotoxicoiogical data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicoiogy of similar products.

Acute Toxicity: Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract).

13 DISPOSAL CONSIDERATIONS

Waste Disposal Information:

Material disposal: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
Container disposal: Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
Local legislation: Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14 TRANSPORT INFORMATION

DOT Information:

This material is not subject to DOT regulations under 49 CFR Parts 171-180.

Comment:

IMDG
This material is not classified as dangerous under IMDG regulations.
IATA (Country variations may apply)
This material is not classified as dangerous under IATA regulations.

15 REGULATORY INFORMATION

LABELLING

Hazard Codes:

NFPA Flammability	1
NFPA Health	0

15 REGULATORY INFORMATION

LABELLING

Hazard Codes:

NFPA Reactivity 0

NATIONAL REGULATIONS

SARA 311/312: No
SARA 313: Yes
Immediate Health: No
Delayed Health: No
Fire: No
Sudden Pressure Release: No
Reactive: No
Other Regulation:

TSCA All components listed.

STATE/LOCAL REGULATIONS

Comment:

California Safe Drinking Water and Toxic Enforcement Act {Proposition 65)
This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
New Jersey Right-To-Know Chemical List
Distillates (petroleum), hydrotreated light paraffinic (64742- Listed. 55-8)
Pennsylvannia Right-To-Know Chemical List
Distillates (petroleum), hydrotreated light paraffinic (64742- Listed. 55-8)

16 OTHER INFORMATION

Additional Comments:

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.
PRODUCT CODES: 59433, 5943300001. . SYNTHETIC FUEL EFFICIENT GL 75W90. ATTENTION! PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE OIL ACNE OR DERMATITIS. PRECAUTIONARY MEASURES: AVOID PROLONGED OR REPEATED CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. FIRST AID: INHALATION: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES AND WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER, THEN WASH WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED. EYE CONTACT: FLUSH WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. HOWEVER, GET MEDICAL ATTENTION. FIRE: IN CASE OF FIRE, USE WATER FOG, ALCOHOL FOAM, DRY CHEMICAL OR CARBON DIOXIDE (CO2) TO EXTINGUISH FLAMES. DO NOT USE A DIRECT STREAM OF WATER. MATERIAL WILL FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER.
SPILL OR LEAK: DIKE AND CONTAIN SPILL. FOR LARGE SPILLS: REMOVE WITH VACUUM TRUCK OR PUMP TO STORAGE/SALVAGE VESSELS. FOR SMALL SPILLS: SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL. PLACE IN NON-LEAKING CONTAINER AND SEAL TIGHTLY FOR PROPER DISPOSAL. CONTAINS: POLYALPHAOLEFIN SYNTHETIC BASE OIL, (68037-01-4); POLYISOBUTYLENE, (9003-27-4); LIGHT NAPHTHENIC PETROLEUM DISTILLATE, (64741-97-5); PROPRIETARY ADDITIVES, MIXTURE.
NFPA RATING (HEALTH, FIRE, REACTIVITY): 0, 1, 0. HMIS RATING (HEALTH, FIRE, REACTIVITY): 0, 1, 0.
TRANSPORTATION: U.S. DEPARTMENT OF TRANSPORTATION CLASSIFICATION: THIS MATERIAL IS NOT SUBJECT TO DOT REGULATIONS UNDER 49 CFR PARTS 171-180. OIL: THIS PRODUCT IS AN OIL UNDER 49 CFR (DOT) PART 130. IF SHIPPED BY RAIL OR HIGHWAY IN A TANK WITH A CAPACITY OF 3500 GALLONS OR MORE, IT IS SUBJECT TO THESE REQUIREMENTS. MIXTURES OR SOLUTIONS CONTAINING 10% OR MORE OF THIS PRODUCT MAY ALSO BE SUBJECT TO THIS RULE.

16 OTHER INFORMATION

Additional Comments:

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 FLAMES OR HEAT. KEEP CONTAINER CLOSED AND DRUM BUNGS IN PLACE.