



GAP PROFESSIONAL PRODUCTS

Safety Data Sheet Synthetic Gear Oil 75w90 w/ Friction Modifier

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Synthetic Gear Oil 75w90 w/ Friction Modifier
Product number	90906 / 90590
Brand	GAP Professional Products

1.3 Recommended use of the chemical and restrictions on use

Professional Automotive, Industrial, or Commercial uses Only. Not for general consumer use.

1.4 Supplier's details

Name	GAP Professional Products
Address	122 Route 105 Keswick Ridge NB E6L 1B1 Canada
Telephone	(506) 363-9708
Fax	(506) 363-4241
email	info@gapauto.com

1.5 Emergency phone number

For Medical or Transport Emergencies
CANUTEC (24 Hours)
(613) 996-6666

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: WHMIS 2015

- Serious eye damage/eye irritation, Cat. 2B
- Skin corrosion/irritation, Cat. 2
- Skin sensitizer, Cat. 1
- Carcinogenicity, Cat. 1B

2.2 GHS label elements, including precautionary statements

Pictograms

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1. Health hazard; 2. Exclamation mark

Signal word

Danger

Hazard statement(s)

H350 May cause cancer [route]
H320 Causes eye irritation
H315 Causes skin irritation
H317 May cause an allergic skin reaction

Precautionary statement(s)

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container to ...
P264 Wash ... thoroughly after handling.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water/...
P321 Specific treatment (see ... on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Component	Concentration
Lubricating oils (petroleum), C20 -50, hydrotreated neutral oil-based, if they contain > 3 % w/w DMSO extract (CAS no.: 72623-87-1; EC no.: 276-738-4; Index no.: 649-483-00-5)	70 - 90 % (weight)
CLASSIFICATIONS: Carcinogenicity, Cat. 1B. HAZARDS: H350 - May cause cancer [route].	
phosphoric acid esters/amine salts	1 - 5 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Olefin sulfide	1 - 5 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

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If inhaled	If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention
In case of skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician if symptoms occur. Wash contaminated clothes before reuse
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses if easy to do. Get medical attention if symptoms occur.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms/effects, acute and delayed

Mild tissue inflammation, rash, nausea.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Treat surrounding material. Regular foam, Water Spray, Water Fog, carbon dioxide or dry chemical. Spray using fog nozzles. Keep containers cool with water. Use caution when applying carbon dioxide in confined spaces.

5.2 Specific hazards arising from the chemical

Product is not flammable, but will burn in a fire. Product may also give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive, and/or toxic.

5.3 Special protective actions for fire-fighters

Wear full protective clothing and self-contained breathing apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs. See Section 8 for recommended personal protective equipment.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent. SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. Dispose in suitable waste container.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation. dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container(s) tightly closed. Use and store this material at room temperature away from sources of ignition, heat, direct sunlight and hot surfaces. Keep away from any incompatible materials (see section 10)

Specific end use(s)

Store in original container. Store as directed by manufacturer

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Lubricating oils (petroleum), C20 -50, hydrotreated neutral oil-based, if they contain > 3 % w/w DMSO extract (CAS: 72623-87-1 EC: 276-738-4)

TWA: 350mg/m³ (NIOSH)

STEL: 1800 mg/m³ (NIOSH)

PEL-C: 500ppm (2000 mg/m³) (US/OSHA)

REL-TWA: 5 mg/m³ (NIOSH)

STEL: 10 mg/m³ (NIOSH)

PEL-C: 5 mg/m³ (US/OSHA)

2. Olefin sulfide

None

3. phosphoric acid esters/amine salts

None

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Showers, eyewash stations, and ventilation systems should be present and in good working order. Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Wear Nitrile gloves, chemical resistant gloves.

Respiratory protection

Recommended: Dust mask or Respirator should be worn if product is used in confined space or used for a prolonged period of time.

SECTION 9: Physical and chemical properties

Appearance, such as physical state and colour

Amber Liquid

Amber

Amber Liquid

Odour

Odour threshold

pH

Characteristic

Not determined

N/A oil based

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Melting point and freezing point	-45°C / -49°F (pour point)
Initial boiling point and boiling range	>220°C / 392°F (based on constituents)
Flash point	220°C / 428°F
Evaporation rate	Not determined
Flammability, in the case of solids and gases	Not Determined
Upper and lower flammability or explosive limits	Not Determined
Vapour pressure	<0.075 mmHg (20°C) (based on constituents)
Vapour density	Not Determined
Relative density	0.855 (15.6°C)
Solubility	Insoluble
Partition coefficient — n-octanol/water	
Auto-ignition temperature	>250°C / 482°F (based on constituents)
Decomposition temperature	Not Available
Viscosity	

Additional properties

Physical state	Liquid
Colour	Amber
Explosive properties	Not Determined
Oxidising properties	None

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Stable under normal use conditions.

10.4 Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Oxides of carbon, oxides of sulfur, oxides of phosphorus, oxides of nitrogen, amines, aliphatic compounds, toxic by-products.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Petroleum Distillates, Hydrotreated heavy paraffinic

Oral LD50 (rat) >5000 mg/kg

Dermal LD50 (rabbit) >5000 mg/kg

Inhalation LC50 (rat) >5.53 mg/L (4hr)

Phosphoric acid esters/amine salt - N/D

Olefin Sulfide - N/D

Skin corrosion/irritation

Petroleum Distillates, Hydrotreated heavy paraffinic - Mildly irritating to skin

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Phosphoric acid esters/amine salt - N/D

Olefin Sulfide - N/D

Serious eye damage/irritation

Petroleum Distillates, Hydrotreated heavy paraffinic - Non-irritating to eyes

Phosphoric acid esters/amine salt - N/D

Olefin Sulfide - N/D

Respiratory or skin sensitization

Petroleum Distillates, Hydrotreated heavy paraffinic - Not dermally sensitizing

Phosphoric acid esters/amine salt - May be a dermal sensitizer

Olefin Sulfide - N/D

Germ cell mutagenicity

Petroleum Distillates, Hydrotreated heavy paraffinic - Not mutagenic

Phosphoric acid esters/amine salt - Not mutagenic in laboratory tests

Olefin Sulfide - N/D

Carcinogenicity

Petroleum Distillates, Hydrotreated heavy paraffinic - Carcinogenic potential is reduced for highly refined distillates. Tumors have developed in animal studies, but were dependant on the concentration of impurities. Not classified as to carcinogenicity to humans.

Phosphoric acid esters/amine salt - N/D

Olefin Sulfide - N/D

Reproductive toxicity

Petroleum Distillates, Hydrotreated heavy paraffinic - Reproductive performance and offspring development were not adversely affected in mice and rats (1000 mg/kg)

Phosphoric acid esters/amine salt - N/D

Olefin Sulfide - N/D

Specific target organ toxicity (STOT) - single exposure

Petroleum Distillates, Hydrotreated heavy paraffinic - N/D

Phosphoric acid esters/amine salt - N/D

Olefin Sulfide - N/D

Specific target organ toxicity (STOT) - repeated exposure

Petroleum Distillates, Hydrotreated heavy paraffinic - In a 13 week oral study in rats at up to 500mg/kg/day, the LOAEL was 125 mg/kg/day based on organ weight changes, reddening/dyscoloration of organs and atrophy in male sex organs.

Phosphoric acid esters/amine salt - In a 28 day oral study in rats, treatment related effects included microscopic changes in the adrenal glands and kidneys at 150 and 500mg/kg/day.

Olefin Sulfide - N/D

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Aspiration hazard

This product does not pose an appreciable aspiration hazard.

Additional information

None

SECTION 12: Ecological information

Toxicity

Petroleum Distillates, Hydrotreated heavy paraffinic -
LL50 fathead minnow >100mg/L/96hr
EL50 Daphnia magna .10000mg/L/48hr
NOEL 9Algae) >100mg/L/72hr

Phosphoric acid esters/amine salt -
LC50 (Fathead minnow) 8.5mg/L/96hr
EC50 (Daphnia magna) 91.4mg/L/48hr
EC50 (green algae) 6.4mg/L/96hr

Olefin Sufide -
EC50 (Daphnia magna) 63mg/L/48hr
EC50 (green algae) 100mg/L/72hr

Persistence and degradability

Petroleum Distillates, Hydrotreated heavy paraffinic - Not inherently biodegradable

Phosphoric acid esters/amine salt - Not readily biodegradable

Olefin Sufide - Not readily biodegradable

Bioaccumulative potential

Petroleum Distillates, Hydrotreated heavy paraffinic - May contain constituents with the potential to bioaccumulate.

Phosphoric acid esters/amine salt - No data

Olefin Sufide - May bioaccumulate

Other adverse effects

None

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of accordance in local, and provincial regulations for solvent and oil materials

Packaging disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Other disposal recommendations

Prevent the material from entering drains and water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

SECTION 14: Transport information

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DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Canadian Domestic Substances List (DSL)

All components of this product are listed on the Canadian Domestic Substance List

Canadian Non-Domestic Substances List (NDSL)

SECTION 16: Other information

16.2 Preparation information

Prepared by Craig Gourley