



Safety Data Sheet

1. Identification of the substance and of the supplier

1.1 Product identifiers

Product name : GEAR OIL GL-4 SAE 80W90

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Lubricating oil

1.3 Details of the supplier of the safety data sheet

Company : PSP Specialties Co., Ltd
1 Boromrachachonanee Road, Arunamrin Bangkoknoi Bangkok 10700
Telephone : 662 4336012 – 15
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2. Hazards identification

2.1 Classification of the substance or mixture

Skin corrosion / Irritation Category 3
Serious eye damage / Eye irritation Category 2B

2.2 Label elements

Pictogram No

Signal word Warning

Hazard statement(s) H316:Causes mild skin irritation
H320:Caused eye irritation

Precautionary statement(s)

Prevention P264:Wash thoroughly after handling
Response P305+P351+P338:If in eye: Rinse cautiously with water for several minutes, Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313:If skin irritation occurs: Get medical advice/attention.
P337+P313:If eye irritation persists: Get medical advice/attention

2.3 Other hazards : No data available

3. Composition/Information on ingredients

Complex Mixture

Components	CAS No.	Concentration %
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	95 - 98
Additive	Proprietary	2 - 5

4. First aid measures

4.1 Description of first aid measures

Inhalation	Remove person to fresh air. If not breathing, give artificial respiration. Get medical attention.
Skin contact	Wash contact areas with soap and water. Launder contaminated clothing before reuse
Eye contact	Flush thoroughly with water for at least 15 minutes. If irritation occurs, get medical attention.
Ingestion	Do NOT induce vomiting. Get immediate medical attention

4.2 Most important symptoms and effects, both acute and delayed : Headache, dizziness, nausea, respiratory irritation , Mildly irritating to skin.

4.3 Indication of any immediate medical attention and special treatment needed : Treat symptomatically

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray, foam, dry chemical or carbon dioxide (CO₂).

Inappropriate Extinguishing Media : Straight streams of water

5.2 Special hazards arising from the substance or mixture

Non- flammable mixtures. Elevated temperatures can lead to the formation of irritating vapors.

5.3 Special protective equipment and precautions for fire-fighters

Fire fighters should use self-contained breathing apparatus (SCBA) to fight fires. Use water spray to cool fire exposed surfaces and to protect personnel.

6. Accidental Release Measure

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area. Avoid contact with spilled material. Half-face or full-face respirator with filter for organic vapor.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up

Stop leak if with out risk. Move containers from spill area. Absorb with an inert dry material (e.g. sand). And place in waste disposal container.

7. Handling and Storage

7.1 Precautions for safe handling

Avoid breathing vapor or mist.
Avoid contact with skin and eyes
Wear suitable gloves, coveralls, apron and boots.
Use only with adequate ventilation.
Use non-sparking tools.
Prevent spills and leaks to avoid slipping hazards.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers closed when not in use and check regularly for leaks. Keep in the original container protected from direct sunlight in a dry ,cool and well ventilated areas. Store away from incompatible materials. Avoid excessive long-term storage temperatures to prolong shelf life.
Maximum storage temperature: 60 °C

8. Exposure Controls/Personal Protection

8.1 Control parameters

Mineral Oil 64742-65-0

ACGIH TLV-TWA 5 mg/m³

ACGIH TLV-STEL 10 mg/m³

OSHA PEL-TWA 5 mg/m³

8.2 Appropriate engineering controls

Ventilation may be used to control or reduce airborne concentrations.

8.3 Personal protective equipment

Eye/face protection : Goggle with face shields are recommended.

Skin and Body protection : Wear gloves made from nitrile rubber., Chemical / oil resistant clothing

Respiratory protection : Wear organic vapor respirator.

8.4 Work / Hygienic Practices:

When using do not eat drink or smoke . Wash hand prior to eating ,drinking , smoking or using the toilet.

Wash contaminated clothing and other protective equipment before reusing.

9. Physical and Chemical Properties

a) Appearance	Bright & Clear
b) Odour	Characteristic
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	240 °C
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	Insoluble
o) Partition coefficient: octanol/water log Pow	No data available
p) Auto ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	135.7 mm ² /s @40 °C

10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No polymerization

10.4 Conditions to avoid

Excessive heat and sources of ignition

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Does not decompose at ambient temperatures.
If high temperature, material will decompose to Aldehydes, sulphur oxides and oxide of carbon

11. Toxicological Information

11.1 Information on the likely routes of exposure

- Inhalation : Prolonged breathing of vapors can cause headache, dizziness, nausea, respiratory irritation or chemical pneumonitis.
- Skin contact : Slightly irritating.
- Eye contact : Slightly Irritating.
- Ingestion : Can cause stomach ache and vomiting.

11.2 Symptoms related to the physical, chemical and toxicological characteristics;

Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis. Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

11.3 Delayed and immediate effects and also chronic effects from short and long term exposure; Immediate effects

May cause respiratory irritation, headache, nausea . Mildly irritating to skin and eyes.

Chronic effects :

Prolonged and repeated contact with skin can cause deflating and drying of the skin resulting in skin irritation and dermatitis.

11.4 Numerical measures of toxicity

Components	Acute toxicity
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LD50 (oral rat) :> 5000 mg/kg LD50 (Dermal rabbit) :> 5000 mg/kg LC50 (Inhalation rat) :>2.4 mg/l

Classification of Health Hazards

Acute oral toxicity estimate	Not classified
Acute dermal toxicity estimate	Not classified
Acute inhalation toxicity estimate	Not classified
Skin corrosion / irritation	Category 3
Serious eye damage/eye irritation	Category 2B
Respiratory or skin sensitization	Not sensitization
Germ cell mutagenicity	Not classified
Carcinogenicity	Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC)
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

12. Ecological Information

12.1 Ecotoxicity

Components	Result
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Fish (Salmo gairdneri) > 1000 mg/l (96 h) EC50 Crustacea (Daphnia magna) > 1000 mg/l (48 h) ErC50 Algae (Scenedesmus subspicatus) > 1000 mg/l (96 h) NOEC Fish (Pimephales promelas) > 5000 mg/l (7 days) NOEC Crustacea (Ceriodaphnia sp.) 552 mg/l (7 days)

Acute hazards to the aquatic environment estimate : Not classified
 Long-term hazards to the aquatic environment estimate : Not classified

12.2 Persistence and degradability	No data available
12.3 Bio accumulative potential	No data available
12.4 Mobility in soil	Move under natural forces to the groundwater
12.5 Other adverse effects	Long term effect to the aquatic environment.

13. Disposal Considerations

13.1 Waste treatment methods

Disposal as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state and federal regulations.

13.2 Contaminated packaging

Do not attempt to refill or clean containers since residue is difficult to remove. All containers should be disposed of in accordance with governmental regulations.

14. Transport Information

14.1 UN number	No data available
14.2 UN proper shipping name	No data available
14.3 Transport hazard class(es)	No regulated
14.4 Packaging group	No data available
14.5 Environmental hazards	No data available
14.6 Transport in bulk	No data available
14.7 Special precautions for user	No data available

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

GLOBAL INVENTORIES

component	USA (TSCA)	EU (EINECS)	AUS (AICS)	JAP (ENCS)	KOR (ELCI)	CHN (IECSC)	PHLP (PICCS)	CAN (DSL/ NDSL)	NZ (NZIOC)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

15.2 Chemical Safety Assessment No data available

16. Other Information

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Prepared by: PSP SPECIALTIES CO., LTD.

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