

SAFETY DATA SHEET

Valvoline™ GEAR OIL 75W90 SYNTHETIC
BLEND GEAR OIL

Version: 6.0

Revision Date: 14.09.2021

Print Date: 13/09/2022

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Valvoline™ GEAR OIL 75W90
SYNTHETIC BLEND GEAR OIL

Product code : 867064

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

Recommended use : Gear and lubricating oil.

1.3 Details of the supplier of the safety data sheet

SDS@valvoline.com

1.4 Emergency telephone number

00-800-825-8654 / 001-859-202-3865, or contact
your local emergency telephone number at 112

Product Information

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.2 Label elements

Labelling according to EC Directives: 1999/45/EC

S-phrases : S29/56

Do not empty into drains, dispose of this
material and its container at hazardous or
special waste collection point.

2.3 Other hazards

Additional advice

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

| Chemical name | CAS-No. | Classification | Concentration (%) |
|---------------|---------|----------------|-------------------|
|---------------|---------|----------------|-------------------|

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| | EC-No. Registration number | (REGULATION (EC) No 1272/2008) | |
|---|-------------------------------|-----------------------------------|------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 265-157-1 | | $\geq 70,00 - < 80,00$ |
| Distillates (petroleum), solvent-dewaxed light paraffinic | 64742-56-9 | | $\geq 2,50 - < 5,00$ |
| Alkylamine trialkyldithiophosphate phosphate | | | $\geq 0,50 - < 1,00$ |
| (Z)-Octadec-9- enylamine | 112-90-3 204-015-5 | | $\geq 0,10 - < 0,25$ |

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.
Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

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5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Advice on common storage : No materials to be especially mentioned.
- Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

- Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

- Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.
- Skin and body protection : Wear as appropriate:
Safety shoes
- Respiratory protection : No personal respiratory protective equipment normally required.

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No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | |
|--|---|--|
| Appearance | : | liquid |
| Colour | : | amber |
| Odour | : | oily |
| Odour Threshold | : | No data available |
| pH | : | Not applicable |
| Pour point | : | < -42 °C |
| Boiling point/boiling range | : | No data available No data available |
| Flash point | : | 214 °C Method: Cleveland open cup |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Relative density | : | No data available |
| Density | : | 0,877 g/cm ³ |
| Solubility(ies) | | |
| Water solubility | : | insoluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |

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Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 98 mm²/s (40 °C)

Oxidizing properties : No data available

9.2 Other information

Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : excessive heat

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Components:

HEAVY PARAFFINIC DISTILLATE:

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Acute oral toxicity : LD50 (Rat): > 15 g/kg
Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: Not classified as acutely toxic by inhalation under GHS.
Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Components:

Alkylamine trialkyldithiophosphate phosphate:

Acute oral toxicity :
Assessment: The component/mixture is classified as acute oral toxicity, category 4.

Components:

OLEYLAMINE:

Acute oral toxicity : LD50 (Rat): 1.950 mg/kg
Remarks: Information given is based on data obtained from similar substances.

Skin corrosion/irritation

Components:

HEAVY PARAFFINIC DISTILLATE:

Result: Slight, transient irritation

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified:

Species: Rabbit
Result: Slight, transient irritation

OLEYLAMINE:

Result: Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

HEAVY PARAFFINIC DISTILLATE:

Result: No eye irritation

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Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified:

Species: **Rabbit**

Result: **Slight, transient irritation**

Alkylamine trialkyldithiophosphate phosphate:

Result: **Corrosive**

OLEYLAMINE:

Result: **Corrosive**

Respiratory or skin sensitisation

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified:

Test Type: **Buehler Test**

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

Method: **OECD Test Guideline 406**

Alkylamine trialkyldithiophosphate phosphate:

Assessment: **The product is a skin sensitiser, sub-category 1B.**

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - repeated exposure

Components:

OLEYLAMINE:

Target Organs: **Gastro-intestinal system, Liver, Immune system**

Assessment: **The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.**

Aspiration toxicity

Components:

HEAVY PARAFFINIC DISTILLATE:

May be fatal if swallowed and enters airways.

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil - unspecified:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

OLEYLAMINE:

May be fatal if swallowed and enters airways.

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Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Distillates (petroleum), hydrotreated heavy paraffinic

| | |
|--|--|
| Toxicity to fish | : LL50 (Fish): > 100 mg/l Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : EL50 (Aquatic invertebrates): > 10.000 mg/l Exposure time: 48 h |
| Toxicity to algae | : EL50 (Algae, algal mat (Algae)): > 100 mg/l Exposure time: 72 h |
| Toxicity to fish (Chronic toxicity) | : NOEC: 10 mg/l Species: Fish |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 10 mg/l Species: Aquatic invertebrates |

Distillates (petroleum), solvent-dewaxed light paraffinic

| | |
|---|--|
| Toxicity to fish | : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : EL50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202 |
| Toxicity to algae | : NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201 |
| Toxicity to daphnia and other aquatic invertebrates | : NOEL: 10 mg/l Exposure time: 21 d |

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(Chronic toxicity) Species: **Daphnia magna (Water flea)**
Test Type: **semi-static test**
Test substance: **WAF**
Method: **OECD Test Guideline 211**

Alkylamine trialkyldithiophosphate phosphate
Ecotoxicology Assessment

Short-term (acute) aquatic hazard : **Toxic to aquatic life.**

Long-term (chronic) aquatic hazard : **Toxic to aquatic life with long lasting effects.**

(Z)-Octadec-9-enylamine

Toxicity to fish : **LC50 (Pimephales promelas (fathead minnow)): 0,11 mg/l**
Exposure time: **96 h**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): 0,011 mg/l**
Exposure time: **48 h**

Toxicity to algae : **EC50 (Desmodesmus subspicatus (green algae)): 0,083 mg/l**
Exposure time: **72 h**
Remarks: **Information given is based on data obtained from similar substances.**

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,01 mg/l
Exposure time: **96 h**

M-Factor (Short-term (acute) aquatic hazard) : **10**

M-Factor (Long-term (chronic) aquatic hazard) : **10**

12.2 Persistence and degradability

Components:

Distillates (petroleum), solvent-dewaxed light paraffinic

Biodegradability : Result: **Inherently biodegradable**
Biodegradation: **31 %**
Exposure time: **28 d**
Method: **OECD Test Guideline 301B**

(Z)-Octadec-9-enylamine

Biodegradability : Result: **Not readily biodegradable.**
Biodegradation: **44 %**
Exposure time: **28 d**

12.3 Bioaccumulative potential

Components:

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(Z)-Octadec-9-enylamine

Bioaccumulation : Species: **Fish**
Bioconcentration factor (BCF): **> 500**

Partition coefficient: n-
octanol/water : log Pow: **estimated > 4**

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

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

The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : On TSCA Inventory

Inventories

AIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Further information

Internal information : 000000221054

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Full text of H-Statements

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (+31 (0)78 654 3500).

Sources of key data used to compile the Safety Data Sheet

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

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ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine
CLP : Classification, Labelling and Packaging
CSA : Chemical Safety Assessment
CSR : Chemical Safety Report
DNEL : Derived No Effect Level.
EINECS : European Inventory of Existing Commercial Chemical Substances.
ELINCS : European List of Notified Chemical Substances
PEC : Predicted Effect Concentration
PEL : Permissible Exposure Limits
PNEC : Predicted No Effect Concentration
R-phrase : Risk phrase
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulation Concerning the International Transport of Dangerous Goods by Rail
S-phrase: Safety phrase
WGK : German Water Hazard Class