



Gear Oil 80W-90 GL-5 Mineral Hypoid Oil

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 7-1-2012 Revision date: 27-12-2021 Supersedes: 3-12-2021 version: 7.2

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

1.1. Product identifier

Product form : Mixture
Product name : Gear Oil 80W-90 GL-5 Mineral Hypoid Oil
Product code : 10000
Type of product : Other engine, gear and lubricating oils.
Product group : Blend

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

1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use, Industrial use
Industrial/Professional use spec : Non-dispersive use
Used in closed systems
Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

MPM International Oil Company
Cyclotronweg 1
2629 HN Delft Delft - Nederland
T +31 (0)15 2514030
support@mpmoil.nl - www.mpmoil.com

1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

| Country | Official advisory body | Address | Emergency number | Comment |
|----------------|--------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER London | +44 20 7188 7188 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH208 - Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction.
EUH210 - Safety data sheet available on request.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Highly refined mineral oil, contains <3% (w/w) DMSO extract, according to IP346

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------------------------------|---------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Polysulphides, di-tert-Bu | (CAS-No.) 68937-96-2 (EC-No.) 273-103-3 (REACH-no) 01-2119540515-43 | > 1 – < 3,9 | Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| Amines, C12-14-tert-alkyl | (EC-No.) 931-384-6 (REACH-no) 01-2119493620-38 | > 0,1 – < 0,99 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 2, H411 |
| (Z)-N-9-octadecenyl-1,3-diaminopropane | (CAS-No.) 7173-62-8 (EC-No.) 230-528-9 (REACH-no) 01-2119487002-46 | > 0,01 – < 0,099 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|---------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Polysulphides, di-tert-Bu | (CAS-No.) 68937-96-2 (EC-No.) 273-103-3 (REACH-no) 01-2119540515-43 | (46 ≤ C < 100) Skin Sens. 1B, H317 |
| Amines, C12-14-tert-alkyl | (EC-No.) 931-384-6 (REACH-no) 01-2119493620-38 | (9,39 ≤ C < 100) Eye Dam. 1, H318 (50 ≤ C < 100) Skin Sens. 1, H317 |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|--------------------|-----------------------------------------------------------------------------------------------|
| After inhalation | : Not required. |
| After skin contact | : Wash skin with mild soap and water. |
| After eye contact | : In case of eye contact, immediately rinse with clean water for 10-15 minutes. |
| After ingestion | : Do NOT induce vomiting. Rinse mouth out with water. Get immediate medical advice/attention. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|--------------------|--------------------------------------------------------------------------------------------------------|
| After inhalation | : Not expected to present a significant inhalation hazard under anticipated conditions of normal use. |
| After skin contact | : Not expected to present a significant skin hazard under anticipated conditions of normal use. |
| After eye contact | : Not expected to present a significant eye contact hazard under anticipated conditions of normal use. |
| After ingestion | : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. |

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|---------------------------------------------------|
| Suitable extinguishing media | : Water spray, powder, foam and CO ₂ . |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

| | |
|--------------------------------|-------------------------------------------------------------------------------------------------|
| Precautionary measures fire | : Exercise caution when fighting any chemical fire. |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|-------------------------------------------------|
| Protective equipment | : Wear suitable protective clothing and gloves. |
|----------------------|-------------------------------------------------|

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6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and gloves.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Detergent. Clean up any spills as soon as possible, using an absorbent material to collect it.

Other information : Spill area may be slippery. Use suitable disposal containers.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Handling temperature : < 40 °C

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a closed container.

Storage temperature : ≤ 40 °C

Storage area : Store in dry, well-ventilated area.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m³ oilspray (TWA, 8 hour workday) is recommended.

8.2. Exposure controls

Personal protective equipment:

Gloves. Safety glasses.

Hand protection:

Protective gloves

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|--------|-----------------------------------------------|-------------------|----------------|-------------|------------|
| Gloves | Nitrile rubber (NBR), Chloroprene rubber (CR) | 6 (> 480 minutes) | > 0,4 | | EN ISO 374 |

Eye protection:

Safety goggles

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--------------------------------------------|---------------------------------------------------------------|
| Physical state | : Liquid |
| Appearance | : Oily liquid. |
| Colour | : Amber. |
| Odour | : Characteristic. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : > 200 °C @ ASTM D92 |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 890 kg/m ³ @ 15°C |
| Solubility | : Slightly soluble, the product remains on the water surface. |
| Log Pow | : No data available |
| Viscosity, kinematic | : 145 mm ² /s @ 40°C |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No naked flames, sparks, and do not smoke.

10.5. Incompatible materials

Strong oxidizing agent. Acids and bases.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |

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Amines, C12-14-tert-alkyl

| | |
|----------------------------|-------------------------------|
| NOAEL (oral, rat, 90 days) | 150 mg/kg bodyweight/day @28d |
|----------------------------|-------------------------------|

Aspiration hazard : Not classified

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| | |
|----------------------|-------------------------------|
| Viscosity, kinematic | 145 mm ² /s @ 40°C |
|----------------------|-------------------------------|

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Polysulphides, di-tert-Bu (68937-96-2)

| | |
|----------------------|--------------------------|
| EC50 Daphnia 1 | 63 mg/l @2d |
| EC50 72h - Algae [2] | > 100 mg/l |
| EC50 96h - Algae [1] | > 10000 mg/l Slib @0.1DY |

(Z)-N-9-octadecenyl-1,3-diaminopropane (7173-62-8)

| | |
|------------------------|--------------------------------|
| LC50 fish 1 | > 0,1 mg/l (Brachydanio rerio) |
| EC50 Daphnia 1 | > 0,01 mg/l (Daphnia magna) |
| EC50 72h - Algae [1] | > 0,01 mg/l |
| NOEC chronic crustacea | > 0,001 @21DY (Daphnia maga) |

Amines, C12-14-tert-alkyl

| | |
|------------------------|----------------------------------------|
| LC50 fish 1 | 24 mg/l @4d Oncorhynchus mykiss |
| LC50 fish 2 | 8,5 mg/l @4d Pimephales promelas |
| EC50 Daphnia 1 | 91,4 mg/l @2d |
| EC50 72h - Algae [1] | 6,4 mg/l Selenastrum capricornutum |
| NOEC chronic fish | 3,2 mg/l Oncorhynchus mykiss @4d |
| NOEC chronic crustacea | 0,12 mg/l @21 d waterflea |
| NOEC chronic algae | 1,7 mg/l @4d selenastrum capricornutum |

12.2. Persistence and degradability

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| | |
|-------------------------------|--------------------------------------------------------|
| Persistence and degradability | Not soluble in water, so only minimally biodegradable. |
|-------------------------------|--------------------------------------------------------|

Polysulphides, di-tert-Bu (68937-96-2)

| | |
|----------------|--------------------|
| Biodegradation | 13 % @OECD TG @28d |
|----------------|--------------------|

Amines, C12-14-tert-alkyl

| | |
|-----------------|-----------------------------------|
| BOD (% of ThOD) | 3,6 % ThOD @28d inherent sediment |
| Biodegradation | 7,4 % Sturm (28d) |

12.3. Bioaccumulative potential

Polysulphides, di-tert-Bu (68937-96-2)

| | |
|---------|---|
| Log Kow | 6 |
|---------|---|

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Additional information : This material and its container must be disposed of in a safe way, and as per local legislation.

SECTION 14: Transport information

In accordance with ADR / IMDG

| ADR | IMDG |
|---------------------------------------------------------------------------------|-------------------------------------------------------------|
| 14.1. UN number | |
| Not applicable | Not applicable |
| 14.2. UN proper shipping name | |
| Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | |
| Not applicable | Not applicable |
| 14.4. Packing group | |
| Not applicable | Not applicable |
| 14.5. Environmental hazards | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No |
| No supplementary information available | |
| 14.6. Special precautions for user | |
| Overland transport | |
| No data available | |
| Transport by sea | |
| No data available | |
| 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code | |
| Not applicable | |

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

| Indication of changes: | | | |
|-------------------------------|--------------|----------|----------|
| Section | Changed item | Change | Comments |
| | Supersedes | Modified | |

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| | | | |
|-----|-----------------------------------------------------------------|----------|--|
| | Revision date | Modified | |
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Removed | |
| 2.2 | EUH-statements | Modified | |
| 3 | Composition/information on ingredients | Modified | |

| Full text of H- and EUH-statements: | |
|-------------------------------------|-----------------------------------------------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request. |

SDS MPM REACH

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.