

SAFETY DATA SHEET

MOL-LUB Ltd.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **MOL Dynamic Gold Longlife 5W-30 synthetic motor oil**

Version: 3 Latest revision: 06. 07. 2012 Date of issue: 20. 06. 2007 Page: 1/(12)

1. Identification of the mixture and of the company/undertaking

1.1 Product identifier:

MOL Dynamic Gold Longlife 5W-30 synthetic motor oil

1.2 Relevant identified uses of the mixture and uses advised against

Relevant identified uses: synthetic motor oil

Uses advised against: no data

1.3 Details of the supplier of the safety data sheet:

MOL-LUB Lubricant Production Trade and Service Limited Liability Company
H-2931 Almásfüzitő, Fő út 21., Hungary
Phone / Fax: +36 34 526 330 / +36 34 526 391

Request SDS of:

MOL-LUB Lubricant Production Trade and Service Limited Liability Company
Customer Service Center
H-2931 Almásfüzitő, Fő út 21., Hungary
Phone / Fax: +36 80 201 296 / +36 34 348 010

Responsible for SDS:

MOL-LUB Ltd. Csaba Horváth, head of HSE, SD and QOP
Phone: +36 34 526 343; Mobile: +36 20 474 2644
e-mail: csahorvath@mol.hu

Technical information:

MOL-LUB Ltd. Product Development and Technical Service
H-1117 Budapest, Október huszonharmadika utca 18., Hungary
Phone/Fax: +36 80 201 296 or +36 1 464 0236 / +36 1 464 0304

1.4 Emergency telephone number

Emergency telephone (07-15²⁰ h): +36 34 526 210 (CET) on workdays

Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyvárad tér 2.)

Tel.: +36 1 476 6464, or +36 80 201 199

National Health Toxicological Information Service:

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2. Hazards identification

2.1 Classification of the mixture

2.1.1 Classification of the mixture according to regulation (EC) No 1272/2008

Hazard Class and Category:	Hazard statement:
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

2.1.2 Classification of the substance according to regulation (EC) No 1999/45

Human health hazards:	Danger symbol not required.
Note:	Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity (See also Protective equipment).

Safety hazards:	Danger symbol not required.
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Environmental hazards:	Danger symbol not required.
R 52/53:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements (EC) No 1272/2008

Product identification:	Trade name: MOL Dynamic Gold Longlife 5W-30 synthetic motor oil
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GHS Pictogram:	-
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Signal word:	-
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Hazard statement:	H412 Harmful to aquatic life with long lasting effects.
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Precautionary statements – Prevention:	
P273	Avoid release to the environment.

Precautionary statements – Disposal:	
P501	Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger:	Not required.
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Transport classification:	see section 14.
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2.3 Other hazards

no data available

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3. Composition/information on ingredients

3.1 Mixtures

Chemical description: Mixture of refined mineral base oils and hydrotreated neutral oil containing additives.

Component(s) / Hazardous component(s):

Name	EINECS number	CAS number	Hazard symbol / Hazard classes and cat.	Risk phrase / Hazard statements	Conc. %(m/m)
Base oil – unspecified, hydrotreated heavy paraffinic, C20-C50*	265-157-1	64742-54-7	67/548/EGK: - (Note L) 1272/2008/EK: (Note L) Asp.Tox. 1	- H304	max. 50
Mineral oil raffinate*	confidential		67/548/EGK: - (Note L) 1272/2008/EK: - (Note L)	- -	max. 25
Dec-1-ene, homopolymer, hydrogenated REACH Registr. Nr.: 01-2119486452-34	500-183-1	68037-01-4	67/548/EGK: - 1272/2008/EK: Asp.Tox.1	- H304	max. 30
Zinc alkyl dithiophosphate REACH Registr. Nr.: 01-2119493626-26	283-392-8	84605-29-8	67/548/EGK: Xi, N 1272/2008/EK: Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 2	R 41, R 38, R 51/53 H315 H318 H411	max. 0,9
Bis(nonylphenyl)amine REACH Registr. Nr.: 01-2119488911-28	253-249-4	36878-20-3	67/548/EGK: - 1272/2008/EK: Aquatic Chronic 4	R 53 H413	max. 0,9




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Name	EINECS number	CAS number	Hazard symbol / Hazard classes and cat.	Risk phrase / Hazard statements	Conc. %(m/m)
2,6-di-tert-butylphenol  REACH Registr. Nr.: 01-2119490822-33	204-884-0	128-39-2	67/548/EGK: Xi, N 1272/2008/EK: Aquatic Acute 1 Aquatic Chronic 1 Skin Irrit. 2	R 38, R 50/53 H400 H410 H315	max. 0,2
Phenol, dodecyl-, branched  REACH Registr. Nr.: 01-2119513207-49	310-154-3	121158-58-5	67/548/EGK: Xn, N 1272/2008/EK: Aquatic Acute 1 Aquatic Chronic 1 Eye Irrit. 2 Repr. 2 Skin Irrit. 2	R 36/38, R 50/53, R 62 H400 H410 H319 H361 H315	max. 0,2
Diphenylamine  REACH Registr. Nr.: not known	204-539-4	122-39-4	67/548/EGK: N, T 1272/2008/EK: Acute Tox. 3 Acute Tox. 3 Acute Tox. 3 Aquatic Acute 1 Aquatic Chronic 1 STOT RE 2	R 23/24/25, R 33, R 50/53 H301 H311 H331 H400 H410 H373	max. 0,2

*: with exposure limit

The full text of each relevant R-, H- phrase and Hazard classes and cat. see in Section 16.

4. First aid measures

4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

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Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention.

Skin contact: Wash skin with large amounts of water, use soap. In case of persistent irritation, get medical attention.

Eye contact: Flush eyes with plenty of water for 10-15 minutes. In case of persistent irritation, get medical attention.

Ingestion: If swallowed, give water. **Do not** induce vomiting. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed
No data available.

4.3 Indication of any immediate medical attention and special treatment need
Not required.

5. Fire-fighting measures

Fire hazards:
Moderately hazardous (see also Section 9 - flash point).

5.1 Extinguishing media
Suitable extinguishing media:
Foam, carbon dioxide, dry chemical powder.

Unsuitable extinguishing media:
Water jet.

5.2 Special hazards arising from the mixture
Hazardous combustion products:
On burning, carbon dioxide, carbon monoxide, sulphur oxide, phosphor oxides various hydrocarbons and soot can be formed.

5.3 Advice for fire-fighters
Special protective equipment:
According to the existing fire-fighting regulations. Respiratory protection.

Further information:
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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil Notify relevant authority.

6.3 Methods and material for containment and cleaning up

On soil: All kind of ignition sources should be remove. Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid by pumping. Dispose of according to local regulations.

On water: Confine the spillage. Remove from surface by skimming or suitable absorbents. Notify local authorities according to regulations.

6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with lubricants and flammable liquids.

Keep away from radiant heat and open flame.

Avoid contact with skin and eyes. Avoid prolonged breathing of oil vapours or mists.

Ensure washing facilities after working hours and before breaks. Take off contaminated or oil-soaked clothing, wash with warm water and soap.

When using do not eat, drink or smoke. Avoid splashing the product.

Handling temperature: not known

7.2 Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of flammable liquids.

Store in dry, well ventilated place in original, closed containers.

Keep away from radiant heat, open flame and strong oxidizing agents.

Storage temperature: max. 40°C

7.3 Specific end use(s)

Synthetic motor oil.

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8. Exposure controls / personal protection

Engineering control measures:

Not required.

8.1 Control parameters:

Mineral oil mist: TWA: **5 mg/m³**; STEL: 10 mg/m³, for oil mist, vapour excluded (ACGIH).

Method of testing, recommended: NIOSH 5026

8.2 Exposure controls

Personal protection:

Respiratory protection: Breathing apparatus not required.

Hand protection: Oil resistant gloves (EN 374, Breakthrough time 480 min) (e.g. nitrile rubber – minimal thickness 0.33 mm).

Note: Manufacturer's directions for use and the conditions of application should be observed.

Eye protection: Protective goggles not required.

Skin protection: Protective clothing (oil resistant).

Other special: no data

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state:	liquid
Colour:	brown, clear
Odour:	characteristic

Change in physical state:

Pour point (ISO 3016):	typ. -42°C
Boiling point:	not available

Others:

Flash point (COC) (EN ISO 2592):	typ. 210°C
Ignition point (EN ISO 2592):	not available
Autoignition temperature:	not available

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Explosive properties:	not explosive
Oxidizing properties:	not oxidize
Vapour pressure at 20°C:	negligible
Density at 15°C (EN ISO 12185):	0.845 – 0.860 g/cm ³
Solubility in water:	practically insoluble in water
Solubility in other solvents:	gasoline, kerosene, toluene, etc.
n-Octanol/water partition coefficient:	not available
Vapour density:	not available
Heating value:	inf. 38 000 kJ/kg
Kinematic viscosity at 40°C (EN ISO 3104):	typ. 71 mm ² /s
Kinematic viscosity at 100°C (EN ISO 3104):	typ. 11,6 mm ² /s
pH:	not applicable

9.2 Other information
no data available

10. Stability and reactivity

10.1 Reactivity:	Dangerous reactivity not known.
10.2 Chemical stability:	No decomposition if stored and handled properly.
10.3 Possibility of hazardous reactions:	Not known.
10.4 Conditions to avoid:	Direct heat or ignition sources.
10.5 Incompatible materials:	Strong oxidizing agents.
10.6 Hazardous decomposition products:	No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Oral:	LD ₅₀ (rat)	> 2000	mg/kg	(based on components)
Dermal:	LD ₅₀ (rabbit)	> 2000	mg/kg	(based on components)

Acute toxicity: irritation

Skin:	not irritant (based on components)
Eye:	not irritant (based on components)
Note:	Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity.

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Respiratory or skin sensitisation: not sensitising (based on components)

Chronic toxicity: not known

Repeated dose toxicity: not known

Other information, specific effects:

The product does not contain PCBs, PCTs, and other chlorine compounds, and heavy metals, barium compounds.

Note L: The classification as a carcinogen need not apply according to 1272/2008/EC, because it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

Carcinogen effect: not known, resp. not carcinogen (based on components)

Mutagen effect: not known, resp. not mutagen (based on components)

Reproduction-damaging effect: not known, resp. no reproduction-damaging effect (based on components)

Aspiration hazard: not known

12. Ecological information

12.1 Toxicity No data for the product.

Aquatic organisms:

Soil organisms:

Plants:

12.2 Persistence and degradability No data available.

Biodegradability: No data available.

12.3 Bioaccumulative potential No data available.

12.4 Mobility

Mobility in soil Absorbs in soil.

Mobility in water: Floats on water.

12.5 Results of PBT and vPvB assessment Not required.

12.6 Other adverse effects

Heavy metal content: None.

PCT, PCB and other chlorinated hydrocarbons: None.

Environmental effects: Harmful to aquatic life with long lasting effects.

Water hazard class (German): WGK 2

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15. Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture.
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 and to Regulation (EC) 1272/2008.
- 15.2 Chemical safety assessment.
not available

16. Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Source of data presented in this material safety data sheet:

- Test results of this product
- Material safety data sheets of product's components
- Hungarian and EU lists of dangerous substances
- Relevant Hungarian regulation and EU directives

The full text of each relevant R-, H- phrase and Hazard classes and cat. in Section 3.:

R 23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R 33	Danger of cumulative effects.
R 36/38	Irritating to eyes and skin.
R 38	Irritating to skin.
R 41	Risk of serious damage to eyes.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 53	May cause long-term adverse effects in the aquatic environment.
R 62	Possible risk of impaired fertility.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause 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.
H413	May cause long lasting harmful effects to aquatic life.
Acute Tox. 3	Acute toxicity Category 3
AquaticChronic 1	Hazardous to the aquatic environment, Chronic Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic Category 2
AquaticChronic 4	Hazardous to the aquatic environment, Chronic Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1
Asp.Tox.1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity – repeated exposure Category 2

Revision Indicators:

Section	Subject of change	Date	Version
2	Hazards identification	06.01.2009	2
3	Composition / information on ingredients		
16	Other information		
3	Composition/information on ingredients	06.07.2012	3
1-16	Regulatory information, other corrections. Classification by CLP, Revision modification according to 1272/2008/EC		