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

- 1.1 Product identifier: MOL Dynamic Gold Longlife 0W-30 synthetic motor oil
- 1.2 Relevant identified uses of the <u>mixture</u> or substance 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 Distribution and Service Limited Liability Company H-2931 Almásfüzitő, Fő út 21., Hungary Phone / Fax: +36 34 526 330 / +36 34 526 391 E-mail: kenoanyag@mol.hu

Request SDS of: MOL-LUB Lubricant Production Distribution 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 SD, HSE & Business Support Phone: +36 34 526 343; Mobile: +36 20 474 2644 e-mail: csahorvath@mol.hu

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 80 201 199 (0-24 h, free number). National Health Toxicological Information Service:

SECTION 2 Hazards identification

2.1 Classification of the <u>mixture</u> or substance Hazard Class and Category: Hazard statement: Not classified. -



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2.2 Label elements

2.3

Product identification:	Trade name:	MOL Dynamic motor oil	Gold	Longlife	0W-30	synthetic
Hazardous component(s)): -					
e	not required not required					
Hazard statement:						
Supplemental hazard info EUH208 Co		5-18 Alkyl phenol.	May pro	oduce an a	llergic re	action.
Precautionary statements	s – General: -					
Precautionary statements P273 A		the environment.				
Precautionary statements	s – Response: -					
Precautionary statements	s – Storage: -					
Precautionary statements P501 D		ents/container in ac	cordance	e with nati	ional reg	ulation.
Other liabilities for labelling: Tactile warning of danger: Not required. Transport classification: see section 14.						
Other hazards The product does not con (EC) 1907/2006.	tain any PBT o	or vPvB substance a	ccording	g to annex	XIII of re	egulation

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SECTION 3 Composition/information on ingredients

- 3.2 Mixtures
 - Chemical description:

Mixture of refined mineral base oils, hydrotreated neutral oil and synthetic oil containing additives.

Component(s) / Hazardous component(s):

Name	EU	CAS	Hazard classes and	Hazard	Conc. $0/(m/m)$
Distillates (petroleum)	number 265-157-1	number 64742-54-7	cat. Asp.Tox.1	statements H304	%(m/m) max. 30
hydrotreated heavy	203 137 1	04742 54 7	(Note L)	11504	max. 50
paraffinic, C20-C50			()		
REACH Registr. Nr.:					
01-2119484627-25					
1-Decene Homopolymer	500-183-1	68037-01-4	Asp.Tox.1	H304	max. 30
Hydrogenated			(Note L)		
REACH Registr. Nr.:					
01-2119486452-34					
Base oil – unspecified,	276-738-4	72623-87-1	-	-	max. 10
hydrotreated neutral oil-			(Note L)		
based, C20-C50					
REACH Registr. Nr.:					
01-2119474889-13					
Bis(nonylphenyl)amine	253-249-4	36878-20-3	Aquatic Chronic 4	H413	max. 2.5
REACH Registr. Nr.:					
01-2119488911-28			~		1.0
Zinc alkyl dithiophosphate	283-392-8	84605-29-8	Skin Irrit. 2	H315	< 1.0
REACH Registr. Nr.:			Eye Dam. 1	H318	
01-2119493626-26			Aquatic Chronic 2	H411	
C14-16-18 Alkyl phenol	931-468-2		Skin Sens. 1B	H317	0.1-< 0.25
REACH Registr. Nr.:			Aquatic Chronic 4	H413	
01-2119498288-19					

*: with exposure limit

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

SECTION 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.

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

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according to regulation 1907/2006/EC (REACH) and 1272/2008/EC

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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, rinse mouth and then give water. Do not induce vomiting. Case of indisposition gets medical attention.

Protection of first-aid person: No individual specifications.

- 4.2 Most important symptoms and effects, both acute and delayed Skin: cause sensibilization, irritation. Eyes: causes eye irritation.
- 4.3 Indication of any immediate medical attention and special treatment need Applying symptomatic treatment.

SECTION 5 Fire-fighting measures

Fire hazards: Combustible.

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 <u>mixture</u> or substance Hazardous combustion products:

On burning, carbon monoxide, carbon dioxide, sulphur oxides, phosphor oxides, nitrogen oxides, various hydrocarbons, toxic pyrolysis products 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:

Collect contaminated fire fighting water separately. It must not enter the sewage system. Contaminated extinguishing water must be disposed of in accordance with official regulations.



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SECTION 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 removing. Contain spilled liquid with sand, earth, diatomaceous earth, acid binding 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.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with lubricants and flammable liquids. Sufficient ventilation should be provided. 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: max. 120 °C

Note: Higher temperatures can result in an exothermic decomposition of the ZDDP releasing hydrogen sulphide and odourous alkyl mercaptans. If decomposition is suspected, or if the product has been overheated, do not open container.

- 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 separate from food, drink, forage.
 Storage temperature: max. 40°C
- 7.3 Specific end use(s) Synthetic motor oil.

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SECTION 8 Exposure controls / personal protection

Engineering control measures: Preventing overheating.

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

I	
Personal protection:	
Respiratory protection:	Breathing apparatus not required. In case of exceeded exposure- limits respiratory protection is recommended (EN 141).
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 (EN 166) if potential for splash may exists.
Skin protection:	Protective clothing (oil resistant).
Other special:	No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

SECTION 9 Physical and chemical properties 9.1 Information on basic physical and chemical properties Appearance: Physical state: liquid Colour: bright, clear Odour: characteristic Change in physical state: Pour point (ISO 3016): typ. -45°C Boiling point (ISO 2176): not available

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Others:			
Flash point (COC) (EN ISO 2592):	typ. 240°C		
Ignition point (EN ISO 2592):	not available		
Autoignition temperature:	not available		
Explosive properties:	not explosive		
Oxidizing properties:	not oxidize		
Vapour pressure at 20°C:	negligible		
Density at 15°C (EN ISO 12185):	0.840-0.860 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. 60.6 mm ² /s		
Kinematic viscosity at 100°C (EN ISO 3104):	typ. 12.1 mm ² /s		
pH:	not applicable		
Other information			

9.2 Other information no data available

Stability and reactivity **SECTION 10**

		-
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, high temperature.
10.5	Incompatible materials:	Strong oxidizing agents.
10.6	Hazardous decomposition	No dangerous decomposition products are formed under normal
	products:	conditions. In case of thermal decomposition hydrogen sulphide
		gas can be formed. Hazardous combustion products: See Section
		5.

SECTION 11 Toxicological information

11.1	Information on toxicological effects Acute toxicity: No data for the product.			
	Components:		. 60027 0	1 1).
	1-Decene Homopolymer	. Hyarogenatea (CAS	: 08037-0.	1-4):
	Oral:	LD_{50} (rat)	> 5000	mg/kg
	Dermal:	LD ₅₀ (rat)	> 2000	mg/kg
	Inhalation:	LC_{50} (rat)	> 5.2	mg/l



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12.2	Persistence and degradability Biodegradability:	No data available. No data available.
12.3	Bioaccumulative potential	No data available.

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12.4	Mobility	
	Mobility in water:	Floats on water.
	Mobility in soil:	Absorbs in soil.
12.5	Results of PBT and vPvB	
	assessment	Does not contain PBT and vPvB substances.
12.6	Other adverse effects	
	Heavy metal content:	None.
	PCT, PCB and other chlorinated	
	hydrocarbons:	None.
	Environmental effects:	Spills may form a film on water surfaces causing impaired oxygen transfer.
	Water hazard class (German):	WGK 1 (Classification by VwVwS)

SECTION 13 Disposal considerations

13.1 Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste. Waste Identification Code: 13 02 05*

Mineral-based non-chlorinated engine, gear and lubricating oils.

Waste Identification Code: 13 02 06* Synthetic engine, gear and lubricating oils. Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 10*

packaging containing residues of or contaminated by dangerous substances

Disposal must be in compliance with national and local regulations.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.





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SECTION 14 Transport information

	Land transport:		
	Road/ Railway	ADR/RID:	Not classified.
14.1.	UN number:	-	
14.2.	UN proper shipping name:	-	
14.3.	Transport hazard class(es):	-	
14.4.	Packing group:	-	
14.5.	Environmental hazards:	-	
14.6.	Special precautions for user:	-	
	Waterways:		
	Inland waterways/ Sea transport	ADN/IMDG:	Not apply to the product.
	Air transport: ICAO / IATA:		Not apply to the product.

SECTION 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 (mod.: 2015/830/EU) and to Regulation (EC) 1272/2008.
- 15.2 Chemical safety assessment. not available

SECTION 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 1272/2008/EC regulation, Annex XVII. of REACH Relevant Hungarian and EU regulations



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Classification for mixtures and used evaluation method according to regulation 1272/2008/EC (CLP) Not classified. -

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

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Asp. Tox. 1	Aspiration hazard Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens.1B	Respiratory/skin sensitization Category 1B
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment, Chronic Category 4

Legend:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labelling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (1272/2008/EC)
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ecx	Effective Concentration x%
ErC50	EC50 in terms of reduction of growth rate
Edx	Effective Dose x%
EC	European Community
EC number	European Community number
ELINCS	European List of Notified Chemical Substances

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ES	Exposure Scenario			
ESIS		European Chemical Substances Information System		
IARC		International Agency for Research on Cancer		
IATA		International Air Transport Association		
IMDC				
LCx	Lethal Concentration x%			
LDx	Lethal Dose x%			
LOAE				
LOAE		Lowest Observed Adverse Effect Level		
LOEC		Lowest Observed Effect Concentration		
LOEL		Lowest Observed Effect Level		
NOEC	No observed effect concentration	No observed effect concentration		
NOEL	No observed effect level			
NLP	No-Longer Polymer			
NOAI		No Observed Adverse Effect Level		
OECE				
PBT		Persistent Bioaccumulative and Toxic		
PNEC	Predicted No-Effect Concentration	Predicted No-Effect Concentration		
ppm	parts/million	1		
REAC		Registration, Evaluation, Authorisation and Restriction of Chemicals		
RID	Regulations concerning the International carriage of Dangero	Regulations concerning the International carriage of Dangerous Goods by Rail		
SVHC		Substance of Very High Concern		
UVCH	1 / 1	tion products or bio	logical	
VOC	materials			
	Volatile organic compounds			
vPvB Very Persistent and very Bio-accumulative				
Revision Indicators:				
Section	Subject of change	Date	Version	
2	Hazards identification	02.01.2019	2	
3	Composition/information on ingredients			
4.2	1 0			
4.2				
	delayed			
11	Toxicological information			
16	Other information			



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