



SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC **MOL-LUB Ltd.**

Trade name: **MOL Hykomol TDL 75W-90 synthetic automotive gear oil**

Version: 7 Latest revision: 11. 09 2018 Date of issue: 10. 10. 2009 Page: 1/(14)

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

1.1 Product identifier:

MOL Hykomol TDL 75W-90 synthetic automotive gear oil

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

Relevant identified uses: synthetic automotive gear oil

Uses advised against: no data

1.3 Details of the supplier of the safety data sheet:

MOL-LUB Lubricant Production Distribution and Service Ltd.

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 Ltd.

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 mixture or substance

Hazard Class and Category: Hazard statement:

Aquatic Chronic 3

H412

Harmful to aquatic life with long lasting effects.



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2.2 Label elements

Product identification: Trade name: **MOL Hykomol TDL 75W-90 synthetic automotive gear oil**

Hazardous component(s): -

GHS Pictogram: Not required.

Signal word: Not required.

Hazard statement:

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information:

EUH208 Contains Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), and Polysulfides, di-tert-Bu. May produce an allergic reaction.

Precautionary statements – General: -

Precautionary statements – Prevention:

P273 Avoid release to the environment.

Precautionary statements – Response: -

Precautionary statements – Storage: -

Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger: Not required.

Transport classification: see section 14.

2.3 Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.



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SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Mixture of synthetic oils and refined mineral base oils containing additives.

Component(s) / Hazardous component(s):

Name	EU number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
1-Decene, homopolymer, hydrogenated	500-183-1	68037-01-4	Asp. Tox. 1	H304	max. 60
Dec-1-ene, trimers, hydrogenated	500-393-3	157707-86-3	Asp. Tox. 1 (L megjegyzés)	H304	max. 60
Mineral oil raffinate*		confidential	- (Note L)	-	max. 40
Polysulfides, di-tert-Bu** REACH Regist. Nr.: 01-2119540515-43	273-103-3		Skin Sens. 1 Aquatic Chronic 3	H317 H412	max. 4.9
Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorous oxide, propylene oxide and amines, C12-C14 alkyl (branched)*** REACH Regist. Nr.: 01-2119493620-38	931-384-6		Flam. Liq. 3 Acute Tox. 4 Skin Sens. 1 Eye Dam. 1 Aquatic Chronic 2	H226 H302 H317 H318 H411	max. 4.9
O,O,O-triphenyl phosphorothioate	209-909-9	597-82-0	Repr. 2 Aquatic Chronic 4	H361 H413	max. 0.9

*: with exposure limit

** Specific concentration limit: Skin Sens. 1B; : $C \geq 46\%$

*** Specific concentration limit:

Skin Sens. 1; : $9.4\% \leq C < 100\%$; Eye Dam. 1; : $50\% \leq C < 100\%$

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



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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.

Skin contact: Remove contaminated clothing and shoes. Wash skin with large amounts of water, use soap. Discard shoes and other leather articles saturated with the material. 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: Do not induce vomiting. Get prompt medical attention.

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity.

May produce an allergic reaction.

Prolonged and/or repeated contact may cause dermatitis.

If vapours are generated from heating, exposure may cause irritation of mucous membranes and the respiratory tract.

4.3 Indication of any immediate medical attention and special treatment need

On ingestion.

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.



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5.2 Special hazards arising from the mixture or substance

Hazardous combustion products:

On burning, carbon dioxide, carbon monoxide, sulphur oxides, aldehydes, alkyl mercaptans, hydrogen sulphide, can be formed.

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

Further information:

In case of fire, keep containers cool with water spray.

Do not allow contaminated extinguishing water into waterways, drinking water source, channel reach.

Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Danger of slipping on leaked out/spilled product.

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 (see Section 13).

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.



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SECTION 7 Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with chemicals and flammable liquids.
Keep away from radiant heat and open flame.
Use in a well-ventilated area. Keep containers closed when not in use.
Container remains hazardous when empty.
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 clothing and wash it before reuse.
Discard shoes and other leather articles saturated with the material.
When using do not eat, drink or smoke.
Pumping temperature: ambient
Handling temperature: max. 70°C

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 automotive gear oil.

SECTION 8 Exposure controls / personal protection

Engineering control measures:
Adequate ventilation

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



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8.2 Exposure controls

Personal protection:

Respiratory protection: Breathing apparatus not required in case of adequate ventilation. In case of exceeded exposure-limits respiratory protection with particle-filter is recommended.

Hand protection: Oil resistant gloves (e.g. nitril, PVA) (EN 374, Breakthrough time 480 min).

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

Eye protection: Where splashing is possible, wear safety glasses (EN 166).

Skin protection: Protective clothing (oil resistant).

Other special: Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

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:	brown, clear
Odour:	characteristic, strong

Change in physical state:

Freezing point:	-57°C
Pour point (ISO 3016):	not available
Boiling point:	not available

Others:

Flash point:	180°C
Ignition point:	not available
Autoignition temperature:	not available
Explosive properties:	not explosive
Oxidizing properties:	not oxidize
Vapour pressure at 20°C:	negligible
Density at 15.6°C:	0.860 – 0.880 g/cm ³
Solubility in water:	practically insoluble in water



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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. 104 mm ² /s
Kinematic viscosity at 100°C (EN ISO 3104):	typ. 15.1 mm ² /s
pH:	not applicable

9.2 Other information
no data available

SECTION 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 source, 45°C above the temperature.
10.5 Incompatible materials:	Strong oxidizing agents, carbides, powdered metals (formation of hydrogen gas), strong alkalis.
10.6 Hazardous decomposition products:	No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

SECTION 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Oral:	LD ₅₀ (rat)	> 10000 mg/kg	(based on components)
Dermal:	LD ₅₀ (rabbit)	> 2000 mg/kg	(based on components)



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Acute toxicity: irritation

Skin: not irritant (based on components)

Eye: not irritant (based on components)

Respiratory or skin sensitisation: not sensitising (based on components), but may produce an allergic reaction.

Other information, specific effects:

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.

Germ cell mutagenicity: not known, resp. not mutagen (based on components)

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

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

STOT-single exposure: not classified

STOT-repeated exposure: not classified

Aspiration hazard: not classified

SECTION 12 Ecological information

12.1 Toxicity

Aquatic organisms:

No data for the product.

Fish: no data

Invertebrates: 10-100 mg/l

Soil organisms:

Plants:

12.2 Persistence and degradability

Biodegradability:

No data for the product.

No data for the product.

Components:

Reaction products of bis(4- methylpentan-2- yl) dithiophosphoric acid with phosphorous oxide, propylene oxide and amines, C12-C14 alkyl(branched) (EU: 931-384-6)

Inherent/sludge: 3.6 %/28 day

Sturmtest: 10 %/28 day

Sturmtest: 7.4 %/28 day



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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	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:	Harmful to aquatic life with long lasting effects.
	Water hazard class (German):	WGK 2 (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.



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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

Classification for mixtures and used evaluation method according to regulation 1272/2008/EC (CLP)

Aquatic Chronic 3 H412 calculated method

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Flam.Liq. 3	Flammable liquid Category 3
Acute Tox. 4	Acute toxicity Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Skin Sens. 1	Respiratory/skin sensitization Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Repr. 2	Reproductive toxicity Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic Category 2
Aquatic Chron. 3	Hazardous to the aquatic environment Category 3
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



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BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labeling
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
Ec _x	Effective Concentration x%
ErC ₅₀	EC ₅₀ in terms of reduction of growth rate
Ed _x	Effective Dose x%
EC	European Community
EC number	European Community number
ELINCS	European List of Notified Chemical Substances
ES	Exposure Scenario
ESIS	European Chemical Substances Information System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC _x	Lethal Concentration x%
LD _x	Lethal Dose x%
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration
NOEL	No observed effect level
NLP	No-Longer Polymer
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts/million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International carriage of Dangerous Goods by Rail
SVHC	Substance of Very High Concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bio-accumulative



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Revision Indicators:

Section	Subject of change	Date	Version
2 3 11 15 1-16	Hazards identification Ingredients / Hazardous components Toxicological information Regulatory information Regulatory information, other corrections	12.11.2010	2
3 9 1-16	Composition/information on ingredients Physical and chemical properties Regulatory information, other corrections. Revision modification according to 1272/2008/EC	22.06.2012	3
3 4 7 8 9 10 11 13 16	Composition/information on ingredients First aid measures Handling and storage Exposure controls / personal protection Physical and chemical properties Stability and reactivity Toxicological information Disposal considerations Other corrections.	08.10.2012	4
1 3 9 12 1-16	Details of the supplier of the safety data sheet, Responsible for SDS Composition/information on ingredients Physical and chemical properties Ecological information Other corrections, Revision modification according to 2015/830/EU	28.08.2015	5
3 9 1-16	Composition/information on ingredients Physical and chemical properties Other corrections, Revision modification	13.10.2016	6
2, 2.2, 14 3 9 11 12 1-16	Hazards identification. Regulatory information. Composition/information on ingredients Physical and chemical properties Toxicological information Ecological information Other corrections	11.09.2018	7