

# SAFETY DATA SHEET

**MOL-LUB Ltd.**

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

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

Version: 5    Latest revision: 30. 11. 2012    Date of issue: 20. 06. 2007    Page: 1/(13)

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

### 1.1 Product identifier:

**MOL Hykomol Synt 75W-90 semi-synthetic automotive gear oil**

### 1.2 Relevant identified uses of the mixture and uses advised against

Relevant identified uses: semi-synthetic automotive gear 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 (07-15<sup>20</sup> 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 1272/2008/EC

Hazard Class and Category:      Hazard statement:

-      -

#### 2.1.2 Classification of the substance according to regulation 1999/45/EC

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.

Environmental hazards:      Danger symbol not required.

Note:      Spills may form a film on water surfaces causing impaired oxygen transfer.

### 2.2 Label elements 1272/2008/EC

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

GHS Pictogram:      -

Signal word:      -

Hazard statement:

-

Supplemental hazard information:

**EUH208**      Contains Long-chain alkyl amine. May produce an allergic reaction.

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.

Transport classification: see section 14.

### 2.3 Other hazards

no data available

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**3. Composition/information on ingredients****3.1 Mixtures**

Chemical description:        Mixture of synthetic oils and refined mineral base oils 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)
Lubricating oils (petroleum), C>25* REACH Registr.Nr.: 01-2119486948-13	309-874-0	101316-69-2	67/548/EEC: - (Note L) 1272/2008/EC: - (Note L)	-  -	max. 60
Base oil – unspecified, hydrotreated heavy paraffinic, C20-C50* REACH Reistr. Nr. 01-2119484627-25	265-157-1	64742-54-7	67/548/EEC: - (Note L) 1272/2008/EK: - (Note L)	-  -	
Distillates (petroleum), C20-C50*	265-169-7	64742-65-0	67/548/EGK: - (Note L) 1272/2008/EK: Asp.Tox.1 (Note L)	-  H304	
Base oil – unspecified, hydrotreated heavy paraffinic, C20-C50* REACH Reistr. Nr. 01-2119484627-25	265-157-1	64742-54-7	67/548/EGK: - (Note L) 1272/2008/EK: Asp.Tox.1 (Note L)	-  H304	
Lubricating oils (petroleum), C18-40* REACH Registr.Nr.: 01-2119486987-11	305-594-8	94733-15-0	67/548/EGK: - (Note L) 1272/2008/EK: Asp.Tox.1 (Note L)	-  H304	
Lubricating oils (petroleum), C24-C50* REACH Registr. Nr.: 01-2119489969-06	309-877-7	101316-72-7	67/548/EEC: - (Note L) 1272/2008/EC: Asp. Tox. 1 (Note L)	-  H304	

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Name	EINECS number	CAS number	Hazard symbol / Hazard classes and cat.	Risk phrase / Hazard statements	Conc. %(m/m)
1-Decene, homopolymer, hydrogenated REACH Reistr. Nr. 01-2119486452-34	500-183-1	68037-01-4	<i>67/548/EEC:</i> - <i>1272/2008/EC:</i> -	- -	max. 35
Long-chain alkyl amine 		confidential	<i>67/548/EEC:</i> T, C, Xn, N  <i>1272/2008/EC:</i> Acute Tox. 4 Acute Tox. 3 Acute Tox. 3 Skin Corr. 1B Eye Dam. 1 Skin Sens. 1 STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1	R 23/24, R 34, R 22, R 48/20, R 43, R 50/53  H302 H311 H331 H314 H318 H317 H373i H400 H410	max. 0.2
Long-chain alkenyl amine 		confidential	<i>67/548/EEC:</i> C, Xn, N <i>1272/2008/EC:</i> Acute Tox. 4 Skin Corr. 1A Eye Dam. 1 Aquatic Acute 1	R 35, R 22, R 50  H302 H314 H318 H400	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.

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

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**Skin contact:** Remove contaminated clothing. 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, nitrogen oxides, various hydrocarbons and soot can be formed.

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations.

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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## 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. Recover free liquid by pumping. Contain the rest or small quantities with sand, earth or other suitable absorbents. 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)

Semi-synthetic automotive gear 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/m<sup>3</sup>**; STEL: 10 mg/m<sup>3</sup>, 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. -45°C
Boiling point:	not available

Others:

Flash point (COC) (EN ISO 2592):	typ. 220°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 – 0.859 g/cm <sup>3</sup>
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. 96.5 mm <sup>2</sup> /s
Kinematic viscosity at 100°C (EN ISO 3104):	typ. 14.5 mm <sup>2</sup> /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 <sub>50</sub> (rat)	> 2000	mg/kg	(based on components)
Dermal:	LD <sub>50</sub> (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), but may produce an allergic reaction

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)

STOT-single exposure: not known

STOT-repeated exposure: not known

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.            |

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## 12.6 Other adverse effects

Heavy metal content:                      None.

PCT, PCB and other chlorinated        None.  
hydrocarbons:

Environmental effects:                      Spills may form a film on water surfaces causing  
impaired oxygen transfer.

Water hazard class (German):

## 13. Disposal considerations

### 13.1 Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

EWC cod: 13 02 05\*

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

EWC cod: 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.

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

- - -

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

R 22	Harmful if swallowed.
R 23/24	Toxic by inhalation and in contact with skin.
R 34	Causes burns.
R 35	Causes severe burns.
R 43	May cause sensitisation by skin contact.
R 48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R 50	Very toxic to aquatic organisms.
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H373i	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.
Acute Tox. 4	Acute toxicity Category 4
Asp.Tox.1	Aspiration hazard Category 1
Acute Tox. 3	Acute toxicity Category 3
Skin Corr. 1A	Respiratory/skin sensitization Category 1, 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Sens. 1	Respiratory/skin sensitization Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
STOT RE 2	Specific target organ toxicity – repeated exposure Category 2
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1

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## Revision Indicators:

Section	Subject of change	Date	Version
1-16	Other correction	21.01.2009	2
2	Hazards identification	28.10.2009	3
3	Composition / information on ingredients		
5	Fire-fighting measures		
7	Handling and storage		
9	Physical and chemical properties		
10	Stability and reactivity		
12	Ecological information		
15	Regulatory information		
16.	The full text of each relevant R phrase in Section 3. Other corrections		
3	Composition / information on ingredients	24.03.2010	4
2	Hazards identification	30.11.2012	5
3	Composition/information on ingredients		
9	Physical and chemical properties		
12	Ecological information		
1-16	Revision modification according to 1272/2008/EC and 453/2010/EC		