

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

Trade name: MOL Hykomol Syntrans V 75W-90 synthetic automotive gear oil

Version: 5 Latest revision: 14. 08. 2018 Date of issue: 02. 03. 2009 Page: 1/(15)

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

1.1 Product identifier:

MOL Hykomol Syntrans V 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:

Skin Sens. 1 H317 May cause an allergic skin reaction.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting

effects.



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2.2 Label elements

Product identification: Trade name: MOL Hykomol Syntrans V 75W-90 synthetic

automotive gear oil

Hazardous components: Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric

acid with phosphorous oxide, propylene oxide and amines,

Warning

C12-C14 alkyl(branched) (CAS: 931-384-6)

GHS Pictogram:



Signal word:

.

Hazard statement:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Supplemental hazard information:

EUH208 Contains Reaction product of 1,3,4-thiadiazolidine-2,5-dithione,

formaldehyde and phenol, heptyl derivs. May produce an allergic

reaction.

Precautionary statements – General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements – Prevention:

P273 Avoid release to the environment.
P280 Wear protective gloves, eye protection.

Precautionary statements – Response:

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove

P338 contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Precautionary statements - Storage: -

Precautionary statements – Disposal:

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



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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.

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	CAS	Hazard classes and	Hazard	Conc.
Name	number	number	cat.	statements	%(m/m)
Base oil – unspecified,	265-157-1	64742-54-7	-	-	max. 55
hydrotreated heavy			(Note L)		
paraffinic, C20-C50*					
REACH Reistr. Nr.					
01-2119484627-25					
1-Decene, homopolymer,	500-183-1	68037-01-4	-	=	max. 45
hydrogenated			(Note L)		
REACH Registr. Nr.:					
01-2119486452-34					
Base oil – unspecified,	265-157-1	64742-54-7	Asp. Tox. 1	H304	max. 12
hydrotreated heavy			(Note L)		
paraffinic, C20-C50*					
REACH Reistr. Nr.					
01-2119484627-25					
Lubricating oils	309-874-0	101316-69-2	-	-	max. 10
(petroleum), C>25*			(Note L)		
REACH Registr. Nr.:					
01-2119486948-13					
Reaction products of bis(4-	931-384-6	-	Acute Tox. 4	H302	max. 1.35
methylpentan-2-			Skin Sens. 1	H317	
yl)dithiophosphoric acid			Eye Dam. 1	H318	
with phosphorus oxide,			Aquatic Chronic 2	H411	
propylene oxide and					
amines, C12-14 alkyl					
(branched)					
REACH Registr. Nr.:					
01-2119493620-38					



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Name	EU	CAS	Hazard classes and	Hazard	Conc.
Name	number	number	cat.	statements	%(m/m)
Oleylamine	204-015-5	112-90-3	Acute Tox. 4	H302	max. 0.45
			Asp. Tox. 1	H304	
			Skin Corr. 1C	H314	
			Eye Dam. 1	H318	
			STOT SE 3	H335	
			STOT RE 2	H373	
			Aquatic Acute 1	H400 (M=10)	
			Aquatic Chronic 1	H410 (M=10)	
Reaction product of 1,3,4-	939-460-0	-	Skin Irrit. 2	H315	max. 0.45
thiadiazolidine-2,5-			Skin Sens. 1	H317	
dithione, formaldehyde			Eye Dam. 1	H318	
and phenol, heptyl derivs.			Aquatic Chronic 3	H412	
REACH Registr. Nr.:					
01-2119971727-23					

^{*:} 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.

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

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Allergic skin reaction.

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

4.3 Indication of any immediate medical attention and special treatment need

Not required. Applying symptomatic treatment.



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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 mixture or substance

Hazardous combustion products:

On burning, carbon monoxide, carbon dioxide, nitrogen oxides, 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:

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.

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.



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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.

SECTION 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 clothing and wash it before reuse.

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 automotive gear oil.

SECTION 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



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8.2 Exposure controls

Personal protection:

Respiratory protection: Under normal conditions not required. In case of exceeded

exposure-limits respiratory protection with particle-filter is

recommended.

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: Tightly fitting safety goggles (EN 166).

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: yellow, clear Odour: characteristic

Change in physical state:

Pour point (ISO 3016): typ. -45°C not available

Others:

Flash point (COC) (EN ISO 2592): typ. 215°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): $0.860 - 0.880 \text{ g/cm}^3$

Solubility in water: practically insoluble in water Solubility in other solvents: gasoline, kerosene, toluene, etc.



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n-Octanol/water partition coefficient:

Vapour density:

Heating value:

Kinematic viscosity at 40°C (EN ISO 3104):

Kinematic viscosity at 100°C (EN ISO 3104):

pH:

not available
not available
typ. 102 mm²/s
typ. 102 mm²/s
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 sources.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition No dangerous decomposition products are formed under normal

products: conditions. Hazardous combustion products: See Section 5.

SECTION 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: irritant (based on components), causes serious eye irritation

Respiratory or skin sensitisation: sensitising (based on components)



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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 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 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)



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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.

SECTION 14 Transport information

Road/ Railway ADR/RID:

14.1. UN number: 3082

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S.

(contains Oleylamine)



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14.3. Transport hazard class(es): 9 Hazard class: M6 Transport category: 3 14.4. Packing group: Ш Label: 14.5. Environmental hazards: dangerous for the environment 14.6. Special precautions for user: Kemler Number: 90 Limited quantity: 5L Tunnel restriction code: Е Waterways: Inland waterways/ Sea transport ADN/IMDG: 14.1. UN number: 3082 14.2. UN proper shipping name: **ENVIRONMENTALLY HAZARDOUS** SUBSTANCE, LIQUID, N.O.S. (contains Oleylamine) Transport hazard class(es): 9 14.3. 14.4. Packing group: Ш Label: Environmental hazards: 14.5. dangerous for the environment Marine pollutant: yes 14.6. Special precautions for user: EMS-Number: F-A, S-F Air transport: ICAO / IATA: 14.1. 3082 UN number: 14.2. UN proper shipping name: **ENVIRONMENTALLY HAZARDOUS** SUBSTANCE, LIQUID, N.O.S. (contains Oleylamine) Transport hazard class(es): 9 14.3. Ш 14.4. Packing group: Label: 14.5. Environmental hazards: dangerous for the environment Special precautions for user: 14.6.



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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

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

Skin Sens. 1 H317 calculation method Eye Irrit. 2 H319 calculation method Aquatic Chronic 2 H411 calculation method



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H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
11215	Company daily invitation

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H335 May cause respiratory irritation.

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.
 H412 Harmful to aquatic life with long lasting effects.

Acute Tox. 4 Acute toxicity Category 4
Asp.Tox.1 Aspiration hazard Category 1

Skin Corr. 1C Skin corrosion/irritation Category 1C Skin Sens. 1 Respiratory/skin sensitization Category 1 Skin Irrit. 2 Skin corrosion/irritation Category 2

Eye Dam. 1 Serious eye damage/eye irritation Category 1

STOT SE 3
Specific target organ toxicity – single exposure Category 3
STOT RE 2
Acuatic Acute 1
Aquatic Chronic 1
Aquatic Chronic 2
Aquatic Chronic 3
Aquatic Chronic 3
Specific target organ toxicity – repeated exposure Category 2
Hazardous to the aquatic environment, Acute Category 1
Hazardous to the aquatic environment, Chronic Category 2
Hazardous to the aquatic environment, Chronic Category 3

Legend:

ADN	European Agreement concern	ning the International Ca	arriage of Dangerous	Goods by Inland

Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE Acute Toxicity Estimate
BCF Biocontrentration Factor
BOD Biological Oxigen Demand

Bw Body Weight

C&L Classification and Labeling CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging
CMR Carcigonic, Mutagenic or toxic to Reproduction



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COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Cheamicals Agency
Ecx	Effective Concentration x%
Edx	Effective Dose x%
ELINCS	European List of Notified Chemical Substances
ErC50	EC50 in terms of reduction of growth rate;
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
LCx	Lethal Concentration x%
LDx	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
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

Revision Indicators:

Section	Subject of change	Date	Version
2	Hazards identification	27.06.2013	2
3	Composition/information on ingredients		
9	Physical and chemical properties		
11	Toxicological information		
1-16	Revision modification according to 453/2010/EC and		
	1272/2008/EC		



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2	Hazards identification	17.11.2014	3
3	Composition/information on ingredients		
1-16	Regulatory information and other corrections		
1	Details of the supplier of the safety data sheet, Responsible	18.06.2015	4
	for SDS		
2	Other hazards		
3	Composition/information on ingredients		
5	Fire hazards		
14	Transport information		
1-16	Other corrections, revision modification according to		
	2015/830 /EC		
2	Hazards identification	14.08.2018	5
3	Composition/information on ingredients		
9	Physical and chemical properties		
12	Ecological information		