

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 1/(13)

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

1.1 Product identifier:

MOL Hykomol Syntrans 75W-80 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:

Skin Sens. 1

Eye Irrit. 2

Hazard statement:

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation.

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 2/(13)

2.2 Label elements

Product identification: Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Hazardous component(s): Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

GHS Pictogram:



Signal word: **Warning**

Hazard statement:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Supplemental hazard information:

EUH208 Contains 2-ethylhexyl methacrylate. May produce an allergic reaction

Precautionary statements – General: -

Precautionary statements – Prevention:

P280 Wear protective gloves, protective clothing, eye protection/face protection.

P273 Avoid release to the environment.

Precautionary statements - Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove 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.

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 3/(13)

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 refined mineral and synthetic oils containing additives.

Component(s) / Hazardous component(s):

Name	EU number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Base oil – unspecified, hydrotreated heavy paraffinic, C20-C50* REACH registr. No.: 01-2119484622-25	265-157-1	64742-54-7	- (Note L)	-	max. 50
Base oil – unspecified, hydrotreated neutral oil-based, C20-C50*	276-738-4	72623-87-1	Asp.Tox.1 (Note L)	H304	max. 50
Mineral oil raffinate*		confidential	- (Note L)		max. 15
Long-chain alkyl amine	253-249-4	36878-20-3	Aquatic Chron. 4	H413	max. 1.6
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) REACH registr. No.: 01-2119493620-38	931-384-6	-	Acute Tox. 4 Aquatic Chron. 2 Eye Dam. 1 Skin Sens. 1	H302 H411 H318 H317	max. 1.3
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol REACH Registr.Nr.: 01-211976351-35	293-927-7	91648-65-6	Aquatic Chronic 3	H412	max 0.7

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 4/(13)

Name	EU number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Poly(oxy-1,2-ethandiyl), alpha-[(1,1,3,3-tetramethylbutyl)phenyl]-omega-hydroxy-	polymer		Aquatic Chron. 2 Eye Irrit: 2	H411 H319	max. 0.35
2-ethylhexyl methacrylate REACH Registr.Nr.: 01-2119490166-35	211-708-6	688-84-6	Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2 STOT SE 3 Aquatic Chronic 3	H315 H317 H319 H335 H412	max 0.15

*: 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. In case of persistent irritation, 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

May cause an allergic skin reaction.

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment need

Not required.

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 5/(13)

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, 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:

-

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 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.

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 6/(13)

SECTION 7 Handling and storage

7.1 Precautions for safe handling

Keep general measures applied for normal operations with lubricants.

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 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

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 (EN 166).

Skin protection: Protective clothing (oil resistant).

Other special: No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 7/(13)

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

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

Change in physical state:

Pour point (ISO 3016):	typ. -42°C
Boiling point (DIN 51356):	not available

Others:

Flash point (COC) (EN ISO 2592):	typ. 220°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):	0.850 - 0.870 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
Kinematic viscosity at 40°C (EN ISO 3104):	typ. 57.9 mm ² /s
Kinematic viscosity at 100°C (EN ISO 3104):	typ. 9.7 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 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.

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 8/(13)

SECTION 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Oral:

Dermal:

Acute toxicity: irritation

Skin: not irritant (based on components)

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

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

May cause dermatitis.

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

Respiratory or skin sensitisation: sensitising (based on components)

Other information, specific effects:

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

NOTE L: The base oil(s) contain(s) less than 3% DMSO extract (IP 346), therefore not classified as carcinogenic material according to 1272/2008/EC.

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

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 9/(13)

SECTION 12 Ecological information

12.1 Toxicity	Not available.
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:	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 06*	
Synthetic engine, gear and lubricating oils.	
Waste Identification Code: 13 02 05*	
Mineral-based non-chlorinated engine, gear and lubricating oils.	
Disposal must be in compliance with national and local regulations.	

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 10/(13)

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.

Recommended waste treatment method: incineration

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

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

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 11/(13)

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 regulation and EU directives

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

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

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

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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.

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 12/(13)

Acute Tox. 4	Acute toxicity Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Skin Sens. 1	Respiratory/skin sensitization 1 Category
Eye Dam. 1	Seriuos eye Damage/eye irritation Category 1
Eye Irrit: 2	Serious eye damage/eye irritation Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
Aquatic Chron. 2	Hazardous to the aquatic environment Category 2
Aquatic Chron. 3	Hazardous to the aquatic environment Category 3
Aquatic Chron. 4	Hazardous to the aquatic environment 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 Labeling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
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%
Ed _x	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
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

SAFETY DATA SHEET



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

MOL-LUB Ltd.

Trade name: **MOL Hykomol Syntrans 75W-80 synthetic automotive gear oil**

Version: 4 Latest revision: 15. 02. 2018 Date of issue: 13. 07. 2011 Page: 13/(13)

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
1	Details of the supplier of the safety data sheet, Responsible for SDS	06.10.2015	2
3	Composition/information on ingredients		
9	Physical and chemical properties		
1-16	Other corrections, revision modification according to 2015/830 /EU		
3	Composition/information on ingredients	19. 09. 2016	3
1-16	Other corrections		
2	Hazards identification	15.02.2018	4
3	Composition/information on ingredients		
12	Ecological information		
1-16	Other corrections		