

SAFETY DATA SHEET

MOL-LUB Ltd.

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Dynamic MK 9 15W-40 multigrade diesel engine oil**

Version: 4 Latest revision: 13. 05. 2011 Date of issue: 20. 06. 2007 Page: 1/(10)

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

1.1 Product identifier:

MOL Dynamic MK 9 15W-40 multigrade diesel engine oil

1.2 Relevant identified uses of the mixture and uses advised against

Relevant identified uses: multigrade diesel engine 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 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 (07-15²⁰ 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 according to 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

Danger symbol(s) and indication(s): *not required*

Hazardous substance(s):

The packaging must bear the inscription: -

R-phrases: not required

S-phrases: S 60 This material and its container must be disposed of as hazardous waste

 S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets

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 refined mineral base oils containing additives.

Ingredients:

Name	EINECS number	CAS number	Hazard symbol / Hazard classes and cat.	Risk phrase / Hazard statements	Conc. %(m/m)
Lubricating oils (petroleum), C18-C40* Registration Nr.: 01-2119486987-11	305-594-8	94733-15-0	67/548/EEC: - (Note L) 1272/2008/EC: - (Note L)	- - -	max. 95
Lubricating oils (petroleum), C24-C50* Registration Nr.: 01-2119489969-06	309-877-7	101316-72-7	67/548/EEC: - (Note L) 1272/2008/EC: - (Note L)	- -	
Lubricating oils (petroleum), C>25* Registration Nr.: 01-2119486948-13	309-874-0	101316-69-2	67/548/EEC: - (Note L) 1272/2008/EC: - (Note L)	- -	
Mineral oil raffinate*		confidential	- (Note L)	-	max. 10
Zinc dialkyl dithiophosphate 	272-028-3	68649-42-3	Xi, N	R 38, R 41, R 51/53	max. 1.5

*: with exposure limit

The full text of each relevant Hazard classes and cat., R- and H- phrase 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.

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

Skin contact: Wash skin with large amounts of water, use soap. Remove contaminated clothing. In case of persistent irritation, get medical attention.

Eye contact: Flush eyes with plenty of water for 10-15 minutes. Obtain 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:
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, sulphur oxide, 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:

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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:

Prevent spills from entering into natural water, soil and drains by containing the liquid.
Notify relevant authority.

6.3 Methods and material for containment and cleaning up

On soil: Contain spilled liquid with sand, earth or other suitable absorbents.
Recover free liquid by pumping. Dispose of according to local regulations.

On water: Water miscible in all proportion. 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 metalworking fluids and with chemicals.

Avoid contact with skin and eyes. Avoid prolonged breathing of oil vapours or mists.

When using do not eat, drink or smoke.

Ensure washing facilities after working hours and before breaks. Take off contaminated or oil-soaked clothing, wash with warm water and soap.

Handling temperature: No data available.

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.

Recommended storage temperature: max. 40°C

7.3 Specific end use(s)

Multigrade diesel engine oil.

8. Exposure controls / personal protection

Engineering control measures:

Not required.

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Kinematic viscosity at 100°C (EN ISO 3104): typ. 15.4 mm²/s
pH (5 vol.% emulsion in water at 12 DH): 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 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: not irritant (based on components)
Note: Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity.

Respiratory or skin sensitisation: not sensitising (based on components)

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.

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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.

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)

12. Ecological information

- 12.1 Toxicity No data available.
 Aquatic organisms:
 Soil organisms:
 Plants:
- 12.2 Persistence and degradability
 Biodegradability: No data available.
- 12.3 Bioaccumulative potential No data available.
- 12.4 Mobility
 Mobility in soil: Absorbs on soil.
 Mobility in water: Floats on water.
- 12.5 Results of PBT and vPvB assessment Not required.
- 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): -

13. Disposal considerations

- 13.1 Waste treatment methods
 Product disposal:
 Wastes of the product or used oil should be treated as hazardous waste.
 for concentrate:
 EWC kód: 13 02 05*
 Mineral-based non-chlorinated engine, gear and lubricating oils.
 Disposal must be in compliance with national and local regulations.

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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
- Hungarian and EU lists of dangerous substances
- Relevant Hungarian regulation and EU directives

The full text of each relevant R phrase in Section 3.:

- R 38 Irritating to skin.
- R 41 Risk of serious damage to eyes.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Revision Indicators:

Section	Subject of change	Date	Version
3 1-16	Composition / information on ingredients Revision modification according to REACH (1907/2006/EC)	26.02.2008	2
1 3	Product name Composition / information on ingredients Other corrections	08.02.2010	3
3 1-16	Composition/information on ingredients Revision modification according to 453/2010/EC	13.05.2011	4