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

#### Trade name: MOL Dynamic Transit 10W-40 universal engine oil

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

- 1.1 Product identifier: MOL Dynamic Transit 10W-40 universal engine oil
- 12 Relevant identified uses of the mixture and uses advised against Relevant identified uses: universal 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, 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  $(07-15^{20} \text{ h})$ : +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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#### MOL Dynamic Transit 10W-40 universal engine oil Trade name:

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2.	Hazards identification					
2.1 2.1.1	Classification of the mixture Classification of the mixture ac Hazard Class and Category: Eye Irrit. 2	cording to regulation 1272/2008/EC Hazard statement: H319 Causes serious eye irritation.				
2.1.2	Classification of the substance Human health hazards: Note:	according to regulation 1999/45/EC Danger symbol not required. 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: Note:	Danger symbol not required. Spills may form a film on water surfaces causing impaired oxygen transfer.				
2.2	Label elements 1272/2008/EC					
	Product identification: Trade r	name: MOL Dynamic Transit 10W-40 universal engine oil				
	GHS Pictogram:					

Signal word:

Warning

Hazard statement: H319 Causes serious eye irritation. Precautionary statements – Prevention: Wear eye/face protection. P280 Avoid release to the environment. P273 Precautionary statements - Response: 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 - Disposal: Dispose of contents/container in accordance with national P501 regulation.

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Other liabilities for labelling: Tactile warning of danger: Not required. Transport classification: see section 14.

2.3 Other hazards no data available

## 3. Composition/information on ingredients

3.1 Mixtures

Chemical description:

Mixture of refined mineral base oils and hydrotreated neutral oil 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)
Base oil – unspecified, hydrotreated heavy paraffinic, C20-C50*	265-157-1	64742-54-7	67/548/EEC: Xn (Note L)	R 65	
<b>K</b> REACH Registr. Nr.: 01-2119484627-25			1272/2008/EC: Asp.Tox.1 (Note L)	H304	
Base oil – unspecified, hydrotreated neutral oil- based, C20-C50	276-738-4	72623-87-1	67/548/EEC: - (Note L)	-	
REACH Registr. Nr.: 01-2119474889-13			1272/2008/EC: Asp.Tox.1 (Note L)	H304	max. 90
Lubricating oils (petroleum), C24-C50* REACH Registr. Nr.:	309-877-7	101316-72-7	67/548/EEC: - (Note L)	-	
01-2119489969-06			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
Mineral oil raffinate*		confidential	67/548/EEC:		max. 1
			-	-	
			(Note L)		
			1272/2008/EC:		
			-	-	
			(Note L)		
Zinc alkyl	272-028-3	68649-42-3	67/548/EEC:		max. 1.
dithiophospate			Xi, N	R 38, R 41,	
×±				R 51/53	
			1272/2008/EC:		
			Skin Irrit. 2	H315	
			Eye Dam. 1	H318	
			Aquatic Chronic. 2	H411	
Dodecylphenol, mixed	310-154-3	121158-58-5	67/548/EGK:		max. 0.
isomers (branched)			Xn, N	R 62, R 36/38,	
<b>×</b> <u>些</u>				R 50/53	
			1272/2008/EK:		
			Repr. 2	H361	
			Skin Irrit. 2	H315	
			Eye Irrit. 2	H319	
			Aquatic Acute 1	H400	
			Aquatic Chronic 1	H410	

\*: 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.

SkinRemove contaminated clothing. Wash skin with large amounts of water, usecontact:soap. In case of persistent irritation, get medical attention.

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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. Most important symptoms and effects, both acute and delayed 4.2 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. Special hazards arising from the mixture 5.2 Hazardous combustion products: On burning, carbon dioxide, carbon monoxide, sulphur 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. 6. Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions: see Section 8.

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

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# 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) Universal engine oil.

## 8. Exposure controls / personal protection

Engineering control measures: Not required.

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#### 8.1 Control parameters: TWA: 5 mg/m<sup>3</sup>; STEL: 10 mg/m<sup>3</sup>, for oil mist, vapour Mineral oil mist: 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. Tightly fitting safety goggles. Eye protection: Protective clothing (oil resistant). Skin protection: 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. -38°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 Explosive properties: not explosive Oxidizing properties: not oxidize Vapour pressure at 20°C: negligible Density at 15°C (EN ISO 12185): $0.866 - 0.880 \text{ g/cm}^3$ Solubility in water: practically insoluble in water

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	n-Octanol/w Vapour dens Heating valu Kinematic v			EN ISO 31	1 04): 1 104): 1	not a not a nf. 3 yp.1 yp. 1	ine, kerosene, toluene, etc. vailable vailable 8 000 kJ/kg 04.7 mm <sup>2</sup> /s 15.3 mm <sup>2</sup> /s pplicable
9.2	Other information no data avai						
10.	Stability and rea	activity					
10.2 10.3 10.4 10.5	Reactivity: Chemical stabilit Possibility of haz reactions: Conditions to ave Incompatible ma Hazardous decor products:	cal stability:No decomposition if stored and handled properly.lity of hazardousNot known.ns:Not known.ons to avoid:Direct heat or ignition sources.atible materials:Strong oxidizing agents.ous decompositionNo dangerous decomposition products are formed un			nd handled properly. es. a products are formed under normal		
11.	Toxicological in	formation					
11.1	Information on te Acute toxicity: Oral: Dermal:	Disticologica LD <sub>50</sub> (rat LD <sub>50</sub> (rat	)	ts > 2000 > 2000	mg/k mg/k	-	(based on components) (based on components)
	Acute toxicity: irritation         Skin:       not irritant (based on components)         Note:       Prolonged and/or repeated contact may cause irritation on skin depending on individual sensitivity.         Eye:       irritant (based on components), causes serious eye irritation						
	Respiratory or sk	tin sensitis	ation:	not sens	itising	(base	ed on components)
	Chronic toxicity: not known						

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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 not known, resp. no reproduction-damaging effect effect: (based on components) not known Aspiration hazard: 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 Not required. assessment 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):

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

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### **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.

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.

### **14.** Transport information

Land transport: Road/ Railway	ADR/RID:	Not classified.
Waterways: Inland waterways/ Sea transport	ADN/IMDG:	Not classified.
Air transport:	ICAO / IATA:	Not classified.

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### **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 1907/2006/EC and to Regulation 1272/2008/EC.
- 15.2 Chemical safety assessment. not available

### **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

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

Eye Irrit. 2H319calculation method

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

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

R 36/38 R 38		Irritating to eyes and skin. Irritating to skin.						
R 41		Risk of serious damage to eyes.						
R 50/53		Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.						
R 51/	/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.						
R 62		Possible risk of impaired fertility.						
R 65		Harmful: may cause lung damage if swallowed.						
H304	ŀ	May be fatal if swallowed and enters airways.						
H315		Causes skin irritation.						
H318		Causes serious eye damage.						
H319		Causes serious eye irritation.						
H361		Suspected of damaging fertility or the unborn child.						
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.						
Asp.		Aspiration hazard Category 1						
. –	Irrit. 2	Skin corrosion/irritation Category 2						
-	Dam. 1	Serious eye damage/eye irritation Category 1						
-	rrit. 2	Serious eye damage/eye irritation Category 2						
Repr		Reproductive toxicity Category 2						
Aquatic Acute 1		Hazardous to the aquatic environment, Acute Category 1						
1	tic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1						
Aqua	Aquatic Chronic 2 Hazardous to the aquatic environment, Chronic Category 2							
Revision Indicators:								
Section Subject of change		Date	Version					
2	2 Hazards identification		23.03.2009	2				
3 Composition / information on ingredients								
1-16 Other correction								
1-16	Regulatory inf	ormation, other corrections	18.08.2010	3				

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Section	Subject of change	Date	Version
3	Composition/information on ingredients	20.07.2012	4
9	Physical and chemical properties		
1-16	Revision modification according to 453/2010/EC		
2	Hazards identification	26.11.2012	5
3	3 Composition/information on ingredients		
9	Physical and chemical properties		
11	Toxicological information		
1-16	Revision modification according to 1272/2008/EC		