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



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

- 1.1 Product identifier: MOL Dynamic Transit 10W-40 universal engine oil
- 1.2 Relevant identified uses of the <u>mixture</u> or substance 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 E-mail: kenoanyag@mol.hu

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 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

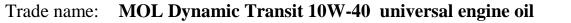
2.1 Cla	1 Classification of the <u>mixture</u> or substance		
Ha	azard Class and Category:	Hazard stat	ement:
Ey	ve Irrit. 2	H319	Causes serious eye irritation.
Ac	quatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.



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	FETY DATA	. SHEET) No 1907/2006 (REACH)	and 1272/2008/EC M	OL-LUB Ltd.			
Tra	ade name: MO	L Dynamic Transi	t 10W-40 universal engine	e oil			
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2.2	Label elements						
	Product identifica		MOL Dynamic Transit 10W-4(pil) universal engine			
	Hazardous compo	nents:					
	GHS Pictogram:	(!)					
	Signal word:	Warning					
	Hazard statement: H319 H412	Causes serious	eye irritation. atic life with long lasting effects.				
	Supplemental haz EUH208	Contains Benzene	esulfonic acid, mono-C-16-24-a e an allergic reaction.	lkyl derivs, calcium			
	Precautionary stat	ements – General: -					
	•	Precautionary statements – Prevention:					
	P280 P273	Wear eye/face pro Avoid release to the					
	Precautionary statements – Response:						
	P305 + P351 +	IF IN EYES: Rins	e cautiously with water for seve				
	P338 P337 + P313	-	present and easy to do. Continue r rsists: Get medical advice/attenti	-			
	Precautionary stat	Precautionary statements – Storage: -					
	Precautionary stat P501	ements – Disposal: Dispose of conten	ts/container in accordance with n	ational regulation.			
	Tactile warning of	Other liabilities for labelling: Tactile warning of danger: Not required. Transport classification: see section 14.					

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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 base oils containing additives.

Component / Hazardous component(s):

Name	EU number	CAS number	Hazard classes and cat.	Hazard statements	Conc. %(m/m)
Lubricating oils(petroleum), C24- C50* REACH Registr. Nr: 01-2119489969-06	309-877-7	101316-72-7	Asp. Tox. 1 (Note L)	H304	max. 55
Lubricating oils (petroleum), C18-40* REACH Registr. Nr: 01-2119486987-11	305-594-8	94733-15-0	(Note L)	-	max. 25
Base oil – unspecified, hydrotreated heavy paraffinic, C20-C50* REACH Registr. Nr: 01-2119484627-25	265-157-1	64742-54-7	Asp. Tox. 1 (Note L)	H304	* max. 15
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based REACH Registr. Nr.: 01-2119474889-13	276-738-4	72623-87-1	Asp.Tox.1 (Note L)	Н304	max. 15
Base oil – unspecified, hydrotreated heavy paraffinic, C20-C50* REACH Registr. Nr: 01-2119484627-25	265-157-1	64742-54-7	(Note L)	-	max. 15
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based REACH Registr. Nr.: 01-2119474889-13	276-738-4	72623-87-1	(Note L)	-	max. 15
Mineral oil raffinate*		confidential	Asp.Tox.1 (Note L)	H304	max. 5





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Name	EU	CAS	Hazard classes and	Hazard	Conc.
Iname	number	number	cat.	statements	%(m/m)
Zinc -dialkyl-	283-392-8	-	Skin Irrit. 2	H315	max. 1.2
dithiophosphate			Eye Dam. 1	H318	
REACH Registr. Nr.:			Aquatic Chronic 2	H411	
01-2119493626-26					
Benzenesulfonic acid,	274-263-7	-	Skin Sens. 1B	H317	max. 0.6
mono-C-16-24-alkyl derivs,					
calcium salts					
REACH Registr. Nr.:					
01-2119492616-28					
Phenol, dodecyl-, branched	310-154-3	121158-58-5	Skin Irrit. 2	H315	max. 0.3
REACH Registr. Nr.:			Eye Irrit. 2	H319	
01-2119513207-49			Repr. 2	H361	
			Aquatic Acute 1	H400 (M=1)	
			Aquatic Chronic 1	H410 (M=10)	
			-	. ,	

*: 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.
 - SkinRemove contaminated clothing. Wash skin with large amounts of water, use
soap. In case of persistent irritation, get medical attention.
 - Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

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

Protection of first-aid person: No individual specifications.

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- 4.2 Most important symptoms and effects, both acute and delayed Causes serious eye irritation. May cause an allergic skin reaction.
- 4.3 Indication of any immediate medical attention and special treatment need Not required.

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 <u>mixture</u> or substance Hazardous combustion products:

On burning, carbon monoxide, carbon dioxide, sulphur oxides, nitrogen oxides, phosphor oxides, various hydrocarbons, calcium oxide 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.

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.



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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.

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) Universal engine oil.

Section 8 Exposure controls / personal protection

Engineering control measures: Not required.

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vapour	
Breathing apparatus not required. 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. Protective goggles, if splashes may occur (EN 166). Protective clothing (oil resistant). no data	

SAFETY DATA SHEET **MOL-LUB Ltd.** according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC Trade name: MOL Dynamic Transit 10W-40 universal engine oil Version: 9 Latest revision: 24. 10. 2016 Date of issue: 20. 06. 2007 Page: 8/(14) Kinematic viscosity at 40°C (EN ISO 3104): typ. 98,1 mm^2/s Kinematic viscosity at 100°C (EN ISO 3104): typ. 14.49 mm²/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 No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5. products: Section 11 **Toxicological information** 11.1 Information on toxicological effects Acute toxicity: Oral: LD_{50} (rat) > 2000 (based on components) mg/kg LD₅₀ (rabbit) (based on components) Dermal: > 2000mg/kg Acute toxicity: irritation Skin: not irritant (based on components) Note: Prolonged and/or repeated contact may cause irritation on skin depending on individual sensitivity. irritant (based on components), causes serious eye Eye:

MOL

irritation. Respiratory or skin sensitisation: not sensitising (based on components), but may produce an allergic reaction

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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 classified as carcinogenic material according to 1272/2008/EC.				
Germ cell mutagenicity: Carcinogenicity:	not known, resp. not mutagen (based on components) not known, resp. not carcinogen (based on components)			
Reproductive toxicity:	not known, resp. no reproduction-damaging effect (based on components)			
STOT-single exposure: STOT-repeated exposure: Aspiration hazard:	not classified not classified not classified			
ion 12 Ecological informatio	n			
Toxicity Not avai Aquatic organisms: Soil organisms: Plants:	lable.			
Persistence and degradability Biodegradability:	No data available. No data available.			
Bioaccumulative potential	No data available.			
Mobility Mobility in soil Mobility in water:	Absorbs in soil. Floats on water.			
Results of PBT and vPvB assessment	Does not contain PBT and vPvB substances.			
Other adverse effects Heavy metal content: PCT, PCB and other chlorinated hydrocarbons: Environmental effects: Water bazard class (German):	None. None. Harmful to aquatic life with long lasting effects. WGK 1 (Classification by VwVwS)			
	The product does not contain metals, barium compounds. NOTE L: The base oil(s) conta classified as carcinogenic mate Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: STOT-single exposure: STOT-repeated exposure: Aspiration hazard: ion 12 Ecological informatio Toxicity Not avai Aquatic organisms: Soil organisms: Plants: Persistence and degradability Biodegradability: Bioaccumulative potential Mobility Mobility in soil Mobility in water: Results of PBT and vPvB assessment Other adverse effects Heavy metal content: PCT, PCB and other chlorinated hydrocarbons:			



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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.

Recommended waste treatment method: incineration

Disposal must be in compliance with national and local regulations.

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

Land transport:				
Road/ Railway		ADR/RID:	Not classified.	
14.1. U	UN number:	-		
14.2. U	UN proper shipping name	: -		
14.3.	Transport hazard class(es)	: -		
14.4. I	Packing group:	-		
14.5. I	Environmental hazards:	-		
14.6. \$	Special precautions for use	er: -		
Waterways: Inland waterways/ Sea transport		ADN/IMDG:	Not apply to the product.	
Air transport:		ICAO / IATA:	Not apply to the product.	



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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

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. 2	H319	calculated method
Aquatic Chronic 3	H412	calculated method

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

H304May be fatal if swallowed and enters airways.H315Causes skin irritation.



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H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H400 H410	Very toxic to aquatic life with long lasting effects.
H410 H411	Toxic to aquatic life with long lasting effects.
Π411	Toxic to aquatic file with long fasting effects.
Asp.Tox.1	Aspiration hazard Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Respiratory/skin sensitization Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Repr. 2	Reproductive toxicity Category 2
-	
Aquatic Acu	
Aquatic Chr	· · ·
Aquatic Chr	onic 2 Hazardous to the aquatic environment, Chronic Category 2
Legend:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland
	Waterways
ADR ATE	European Agreement concerning the International Carriage of Dangerous Goods by Road Acute Toxicity Estimate
BCF	Biocontrentration Factor
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labeling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (1272/2008/EC)
CMR	Carcigonic, Mutagenic or toxic to Reproduction
COD	Chamical 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%
ErC50 Edx	EC50 in terms of reduction of growth rate Effective Dose x%
EC	European Community
EC EC number	European Community number
	European community number



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ELINCS	European List of Notified Chemical Substances
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%) Halálos dózis 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
ppm	parts/million
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	23.03.2009	2
3	Composition / information on ingredients		
1-16	Other correction		
1-16	Regulatory information, other corrections	18.08.2010	3
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	Composition/information on ingredients		
9	Physical and chemical properties		
11	Toxicological information		
1-16	Revision modification according to 1272/2008/EC		

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Revision I	Revision Indicators:					
Section	Subject of change	Date	Version			
2	Hazards identification	17.05.2013	6			
3	Composition/information on ingredients					
11	Toxicological information					
3	Checking classification by CLP of components	07.06.2013	7			
1	Details of the supplier of the safety data sheet,	20.07.2015	8			
	Responsible for SDS					
2	Other hazards					
3	Composition/information on ingredients					
5	Fire hazards					
9	Physical and chemical properties					
12	Ecological information					
14	Transport information					
1-16	Other corrections					
2	Hazards identification	24. 10. 2016	9			
3	Composition/information on ingredients					
9	Physical and chemical properties					
12	Ecological information					

