

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.

# Trade name: MOL GMO MA 40 gas engine oil

Version: 3 Latest revision: 01. 10. 2015 Date of issue: 17. 11. 2009

Page: 1/(13)

Sect	ion 1 Identification of the mixture and of the company/undertaking
1.1	Product identifier: MOL GMO MA 40 gas engine oil
1.2	Relevant identified uses of the mixture and uses advised against Relevant identified uses: gas 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 (07-15 <sup>20</sup> 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:
Sect	ion 2 Hazards identification
2.1	Classification of the mixture Hazard Class and Category: Hazard statement: Not classified.

acco	SAFETY DATA SHEET according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.			
	ide name: MOL GMO MA 40 gas engine oil			
Ver	rsion: 3 Latest revision: 01. 10. 2015 Date of issue: 17. 11. 2009 Page: 2/(13)			
2.2	Label elements ((EC) No 1272/2008)			
	Product identification: Trade name: MOL GMO MA 40 gas engine oil			
	Hazardous components: -			
	GHS Pictogram:not requiredSignal word:not required			
	Hazard statement: not required			
	Supplemental hazard information: -			
	Precautionary statements – General: -			
	Precautionary statements – Prevention:P273Avoid release to the environment.			
	Precautionary statements – Response: -			
	Precautionary statements – Storage: -			
	Precautionary statements – Disposal: <b>P501</b> Dispose of contents/container in accordance with national regulation.			
	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.			

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.

## Trade name: MOL GMO MA 40 gas engine oil

Version: 3 Latest revision: 01. 10. 2015 Date of issue: 17. 11. 2009

#### Section 3 Composition/information on ingredients

#### 3.2 Mixtures

Chemical description: Mixture of refined mineral base oils containing additives.

Component(s) / Hazardous component(s):

		-			
Name	EU	CAS	Hazard classes and	Hazard	Conc.
Indille	number	number	cat.	statements	%(m/m)
Lubricating oils	309-874-0	101316-69-2	-	-	max. 90
(petroleum), C>25*			(Note L)		
REACH Registr. Nr.:					
01-2119486948-13					
Mineral oil raffinate*		confidential	-	-	max. 10
			(Note L)		
Zinc alkyl	272-028-3	68649-42-3	Skin Irrit. 2	H315	max. 0.4
dithiophospate			Eye Dam. 1	H318	
			Aquatic Chronic. 2	H411	

\*: 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<br/>soap. In case of persistent irritation, get medical attention.



Page: 3/(13)

Page



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.

## Trade name: MOL GMO MA 40 gas engine oil

Version: 3 Latest revision: 01. 10. 2015 Date of issue: 17. 11. 2009 Page: 4/(13)

	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 importa No data.	nt symptoms and effects, both acute and delayed
4.3	Indication of a Not require	any immediate medical attention and special treatment need ed.
Secti	on 5 Fire	-fighting measures
	Fire hazards: Combustib	le
5.1		g media guishing media: oon dioxide, dry chemical powder.
	Unsuitable ex Water jet.	tinguishing media:
5.2	Hazardous co On burning	ds arising from the mixture mbustion products: g, carbon dioxide, carbon monoxide, sulphur oxides, phosphor oxides, various ons and soot can be formed.
5.3		e-fighters ctive equipment: to the existing fire-fighting regulations. Respiratory protection.
		ntaminated fire fighting water separately. It must not enter the sewage system. Ited extinguishing water must be disposed of in accordance with official



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.

### Trade name: MOL GMO MA 40 gas engine oil

Version: 3 Latest revision: 01. 10. 2015 Date of issue: 17. 11. 2009

Page: 5/(13)

#### 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. 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 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 Conditions for safe storage, including any incompatibilities 7.2 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

Γ



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.

### Trade name: MOL GMO MA 40 gas engine oil

Version: 3 Latest revision: 01. 10. 2015 Date o

Date of issue: 17. 11. 2009

Page: 6/(13)

7.3	Specific end use(s) Gas engine oil.	
Sect	tion 8 Exposure contro	ols / personal protection
	Engineering control measur Not required.	es:
8.1	Control parameters: <i>Mineral oil mist:</i>	TWA: <b>5 mg/m<sup>3</sup></b> ; STEL: 10 mg/m <sup>3</sup> , for oil mist, vapour excluded (ACGIH).
	Method of testing, recom	imended: MOSH 5026
8.2	Exposure controls Personal protection: Respiratory protection: Hand protection: Eye protection: Skin protection: Other special: Environmental exposure co	
	Do not discharge into dra	iins/surface waters/groundwater.
Sect	tion 9 Physical and ch	emical properties
9.1	Information on basic physic	al and chemical properties
	Appearance:	
	Physical state:	liquid
	Colour:	brown, clear
	Odour: Change in physical state:	characteristic
	Pour point (ISO 3016):	typ18°C
		typ10 C

acco Tra	FETY DATA SHE ording to regulation (EC) No de name: MOL GMC sion: 3 Latest revision: 0	) 1907/2006 (REACH) (MA 40 gas engir		<b>OL-LUB Ltd.</b> Page: 7/(13)
9.2	Others: Flash point (COC) (EN Ignition point (EN ISC Autoignition temperatu Explosive properties: Oxidizing properties: Vapour pressure at 20° Density at 15°C (EN IS Solubility in water: Solubility in other solv n-Octanol/water partitiv Vapour density: Heating value: Kinematic viscosity at Kinematic viscosity at pH: Other information no data available	2592): ure: C: SO 12185): rents: ion coefficient: 40°C (EN ISO 3104):	typ. 258°C not available not available not explosive not oxidize negligible 0.875 – 0.895 g/cm <sup>3</sup> practically insoluble in gasoline, kerosene, tol not available not available inf. 38 000 kJ/kg typ. 140.6 mm <sup>2</sup> /s typ. 15 mm <sup>2</sup> /s not applicable	
Secti	ion 10 Stability and re	eactivity		
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 ager	ts.	
10.6	Hazardous decomposition products:		position products are form s combustion products: S	

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.

### Trade name: MOL GMO MA 40 gas engine oil

Latest revision: 01. 10. 2015 Date of issue: 17. 11. 2009 Version: 3

11.1 Information on toxicological effects					
) mg/kg (based on components)					
) mg/kg (based on components)					
mponents)					
mponents)					
ed contact may cause irritation on skin or in eyes					
sensitivity.					
ensitising (based on components) PCTs, and other chlorine compounds, and heavy					
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.					
nown, resp. not mutagen (based on components) known, resp. not carcinogen (based on ponents)					
known, resp. no reproduction-damaging effect ed on components)					
nown					
nown					
nown					





according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.

#### Trade name: MOL GMO MA 40 gas engine oil

Version: 3 Latest revision: 01. 10. 2015 Date of issue: 17. 11. 2009

Page:	9/(13)

MOL

12.1	Toxicity No data	a 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	Does not contain PBT and vPvB substances.
	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):	WGK 1(Classification by VwVwS)

- 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.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.

### Trade name: MOL GMO MA 40 gas engine oil

Version: 3 Latest revision: 01. 10. 2015 Date of issue: 17. 11. 2009

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.
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.

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

Lan	d 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:	-	
Wat	erways:		
Ι	nland 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 (applicable version) and to Regulation (EC) 1272/2008.



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.

#### Trade name: MOL GMO MA 40 gas engine oil

Version: 3 Latest revision: 01. 10. 2015 Date of issue: 17. 11. 2009

Page: 11/(13)

#### 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 (EC) 1272/2008 (CLP) Not classified.

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

H315	Causes skin irritation.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic Category 2



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.

### Trade name: MOL GMO MA 40 gas engine oil

Version: 3 Latest revision: 01. 10. 2015 Date of issue: 17. 11. 2009

Page: 12/(13)

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	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	EC50 in terms of reduction of growth rate
Edx	Effective Dose x%
EC	European Community
EC number	European Community number
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



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC MOL-LUB Ltd.

### Trade name: MOL GMO MA 40 gas engine oil

Version: 3 Latest revision: 01. 10. 2015 Date of issue: 17. 11. 2009

Page: 13/(13)

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
3	Composition/information on ingredients	27.05.2013	2
9	Physical and chemical properties		
1-16	Revision modification according to 453/2010/EC and		
	1272/2008/EC		
1	Details of the supplier of the safety data sheet,	01.10.2015	3
	Responsible for SDS		
3	Composition/information on ingredients		
9	Physical and chemical properties		
1-16	Other corrections, revision modification according to		
	2015/830 /EU		