



SAFETY DATA SHEET

according to regulation 1907/2006/EC (REACH) and 1272/2008/EC **MOL-LUB Ltd.**

Trade name: **MOL Outboard 2T 2-stroke outboard and jet-ski motor oil**

Version: 5 Latest revision: 30. 06. 2022 Date of issue: 04. 08. 2011 Page: 1/(14)

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

1.1 Product identifier:

MOL Outboard 2T 2-stroke outboard and jet-ski motor oil

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: 2-stroke outboard and jet-ski motor oil

Uses advised against: application other than the above.

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.

Phone: +36 80 201 296

e-mail: EBKHelpdesk@MOL.hu

1.4 Emergency telephone number

Emergency telephone (on workdays: 07-15²⁰ h (CET)): +36 34 526 210

Health Toxicological Information Service (ETTSZ 1097 Budapest, Albert Flórián st. 2-6.)

Tel.: +36 80 201 199 (0-24 h, free number, can only be called from Hungary).

+36 1 476 6464 (0-24 h, can be called for a normal fee - also from abroad)

National Health Toxicological Information Service:

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Hazard Class and Category: Hazard statement:

Skin Sens. 1

H317

May cause an allergic skin reaction

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2.2 Label elements

Product identification: Trade name: **MOL Outboard 2T 2-stroke outboard and jet-ski motor oil**

Hazardous substance(s): Long chain alkyl polyamid

GHS Pictogram:



Signal word: **Warning**

Hazard statement:

H317 May cause an allergic skin reaction.

Supplemental hazard information: -

Precautionary statements – General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements – Prevention:

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing.

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.

Precautionary statements – Storage: -

Precautionary statements – Disposal:

P501 Dispose of contents/container in accordance with national regulation.

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, at a concentration of 0.1% or more.

The mixture does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

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	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. %(m/m)
Distillates (petroleum), solvent-dewaxed heavy paraffinic* REACH Registr. Nr.: 01-2119471299-27	265-169-7	64742-65-0	- (Note L)	-	max. 75
Residual oils (petroleum), solvent-dewaxed* REACH Registr. Nr.: 01-2119480472-38	265-166-0	64742-62-7	- (Note L)	-	max. 30
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics REACH Registr. Nr.: 01-2119457273-39	918-481-9	-	Asp. Tox. 1 (Note J)	H304 EUH066	max. 20
Long chain alkyl polyamid REACH Registr. Nr.: 01-2119960832-33	272-225-4	68784-17-8	Skin Sens. 1 Skin Irrit. 2 Eye Irrit. 2 Aquatic Chronic 3	H317 H315 H319 H412	max. 9.0
1,2,4-trimethylbenzene* REACH Registr. Nr.: no data	202-436-9	95-63-6	Flam. Liq. 3 Skin Irrit. 2 Eye Irrit. 2 Acute Tox. 4 STOT SE 3 STOT SE 3 Aquatic Chronic 2	H226 H315 H319 H332 H335 H336 H411	<0.11

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*: with exposure limit

Note L:

The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Note J: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes.

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. In case of a complaint, call medical attention.

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

Eye contact: Flush eyes with plenty of water for 10-15 minutes. In case of a complaint, get medical attention.

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

Protection of first-aid person: Avoid contact with the product.

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity.

4.3 Indication of any immediate medical attention and special treatment needed

Not required.



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SECTION 5 Fire-fighting measures

Fire hazards:
Combustible.

5.1 Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, dry chemical powder.

Unsuitable extinguishing media:

Full water jet.

5.2 Special hazards arising from the substance or mixture

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. 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.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Danger of slipping on leaked out/spilled product.

6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil. All kind of ignition sources should be removing. 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 removed. 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 clothing and wash it before reuse.
- When using do not eat, drink or smoke. Avoid splashing the product.
- Handling temperature: no data

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)

- 2-stroke outboard and jet-ski motor oil.

SECTION 8 Exposure controls / personal protection

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



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8.2 Exposure controls

Engineering control measures:

Not required.

Personal protection:

- | | |
|----------------------------|--|
| (a) Eye/face protection | Protective goggles, if splashes may occur (EN 166). |
| (b) Skin protection | |
| (i) Hand protection | Oil resistant gloves (EN 374, Breakthrough time > 480 min, PK power level: 6; PR flow rate: 0).
Note: Manufacturer's directions for use and the conditions of application should be observed. |
| (ii) Other | Protective clothing (oil resistant). |
| (c) Respiratory protection | Under normal conditions not required. In case of exceeded exposure-limits respiratory protection with particle-filter is recommended. |
| (d) Thermal hazards | No data. |

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | |
|--|------------------------------|
| a) Physical state: | liquid |
| b) Colour: | brown, bright, clear |
| c) Odour: | characteristic |
| d) Melting point/freezing point (Pour point) (ISO 3016): | typ. -39°C |
| e) Boiling point or initial boiling point and boiling range (DIN 51356): | not available |
| f) Flammability: | combustible |
| g) Lower and upper explosion limit: | not explosive |
| h) Flash point (COC) (EN ISO 2592): | typ. 115°C |
| i) Auto-ignition temperature: | not available |
| j) Decomposition temperature: | not available |
| k) pH: | not applicable |
| l) Kinematic viscosity (EN ISO 3104) | |
| at 40°C: | typ. 43.4 mm ² /s |
| at 100°C: | typ. 6.7 mm ² /s |



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m) Solubility

Solubility in water:

practically insoluble in water

Solubility in other solvents:

gasoline, kerosene, toluene, etc.

n) Partition coefficient n-octanol/water (log value):

not available

o) Vapour pressure at 20°C:

negligible

p) Density and/or relative density at 15°C (EN ISO 12185):

0.865 – 0.885 g/cm³

q) Relative vapour density:

not available

r) Particle characteristics:

not available

9.2 Other information

Oxidizing properties:

not oxidize

Heating value:

inf. 38 000 kJ/kg

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.

SECTION 11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Based on available data, the classification criteria are not met

Oral:	LD ₅₀ (rat)	> 2000 mg/kg	(based on components)
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Dermal:	LD ₅₀ (rabbit)	> 2000 mg/kg	(based on components)
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Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)

Oral:	LD ₅₀ (rat)	> 5000 mg/kg	(Literature data)
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Dermal:	LD ₅₀ (rabbit)	> 2000 mg/kg	(Literature data)
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Inhalation:	LC ₅₀ (rat)	> 5.53 mg/L (4 h)	(Literature data)
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Residual oils (petroleum), solvent-dewaxed (CAS: 64742-62-7)

Oral:	LD ₅₀ (rat)	> 5000 mg/kg	(OECD 401)
Dermal:	LD ₅₀ (rabbit)	> 5000 mg/kg	(OECD 402)
Inhalation:	LC ₅₀ (rat)	> 5.53 mg/L (4 h)	(OECD 403)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics (EC: 918-481-9)

Oral:	LD ₅₀ (rat)	> 5000 mg/kg
Dermal:	LD ₅₀ (rabbit)	> 2000 mg/kg
Inhalation:	LC ₅₀ (rat)	> 5.2 mg/L

Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

11.2 Information on other hazards

The mixture does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

SECTION 12 Ecological information

12.1 Toxicity No data for the product.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)

Fishes:	LC ₅₀	> 100 mg/L	(literature data)
Daphnia:	EC ₅₀	> 100 mg/L	(literature data)
Other aquatic organisms:	EC ₅₀	> 100 mg/L	(literature data)
Algae:	ErC ₅₀	> 100 mg/L	(literature data)
Other living beings:	TLM	> 1 mg/L	(literature data)



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Residual oils (petroleum), solvent-dewaxed (CAS: 64742-62-7)

Fish (Pimephales promelas):	LL ₅₀	> 100 mg/L	96 h (OECD 203)
Fish:	NOEL	≥ 100 mg/L	
Daphnia (Daphnia magna):	EL ₅₀	> 10000 mg/L	48 h (OECD 202)
Daphnia:	NOEL	≥ 1000 mg/L	
Daphnia:	NOEL	10 mg/L	21 days (OECD 211)
Gammarus pulex:	LL ₅₀	> 10000 mg/L	96 h (OECD 202)
Aquatic invertebrates:	NOEL	≥ 10000 mg/L	
Algae			
(Pseudokirchneriella subcapitata):	NOEL	≥ 100 mg/L	72 h (OECD 201)
Activated sludge			
(Photobacterium phosphoreum):	NOEL	1.93 mg/L	96 h

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics (EC: 918-481-9)

Fish:	LC ₅₀	1-10 mg/L
Daphnia:	EC ₅₀	1-10 mg/L
Algae:	EC ₅₀	1-10 mg/L

12.2 Persistence and degradability	No data available.
Biodegradability:	Hydrocarbons are inherently degradable.
12.3 Bioaccumulative potential	No data available.
12.4 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, at a concentration of 0.1% or more.
12.6 Endocrine disrupting properties	The mixture does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.
12.7 Other adverse effects	
Heavy metal content:	None.
PCT, PCB and other chlorinated hydrocarbons:	None.
Environmental effects:	Large spills may be hazardous to the environment. Spills may form a film on water surfaces causing impaired oxygen transfer.
Water hazard class (German):	WGK 1 (Classification by AwSV)



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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.

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.

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.
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- | | | |
|-------|-------------------------------|-----------------|
| 14.1. | UN number or ID number: | not classified. |
| 14.2. | UN proper shipping name: | not classified. |
| 14.3. | Transport hazard class(es): | not classified. |
| 14.4. | Packing group: | not classified. |
| 14.5. | Environmental hazards: | not classified. |
| 14.6. | Special precautions for user: | not classified. |

Waterways:

Inland waterways/ Sea transport	ADN/IMDG:	Not apply to the product.
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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 substance or mixture.
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.
Seveso category: not classified.
- 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.

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

Skin Sens. 1 H317 calculation method

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

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation.
H226	Flammable liquid and vapour
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects.



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Asp Tox. 1	Aspiration hazard Category 1
Flam.Liq. 3	Flammable liquid Category 3
Skin Sens. 1	Respiratory/skin sensitization 1 Category
Skin Irrit. 2	Skin irritation Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Acute Tox. 4	Acute toxicity Category 4
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

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 Labelling
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
ErC ₅₀	EC ₅₀ in terms of reduction of growth rate
ES	Exposure Scenario
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
LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration



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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	Identification of the mixture and of the company/undertaking	23. 02. 2012	2
3	Modification of name, Responsible of SDS		
5	Composition/information on ingredients		
9	Fire hazards		
9	Physical and chemical properties	22. 07. 2015	3
1	Details of the supplier of the safety data sheet, Responsible for SDS		
2	Other hazards		
3	Composition/information on ingredients		
5	Fire hazards		
9	Physical and chemical properties		
14	Transport information	29. 02. 2019	4
1-16	Other corrections, regulatory information		
3	Composition/information on ingredients	30. 06. 2022	5
1-16	other corrections		
1-16	Revision modification according to 2020/878/EU	30. 06. 2022	5
	Full revision due to composition change		