



SAFETY DATA SHEET

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

Trade name: **MOL TO 40A inhibited insulating oil**

Version: 10

Latest revision: 09. 03. 2025

Date of issue: 20. 06. 2007

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

1.1. Product identifier:

MOL TO 40A inhibited insulating oil

UFI:AJX0-M062-X005-DRHN

UFI: R770-00QV-900H-E00V

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

Relevant identified uses: inhibited insulating oil. Industrial use. Use by professional workers.

Uses advised against: Consumer use, application other than the above.

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 Kft.

Tel: +36 80 201 296

E-mail: EBKHelpdesk@MOL.hu

1.4. Emergency telephone number

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

Health Toxicological Information Service (ETTSZ 1097 Budapest, Albert Flórián út 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:

Asp. Tox. 1

Aquatic Chronic 3

Hazard statement:

H304

May be fatal if swallowed and enters airways.

H412

Harmful to aquatic life with long lasting effects.



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2.2. Label elements

Product identification: Trade name: **MOL TO 40A inhibited insulating oil**

Hazardous component(s): Distillates (petroleum), hydrotreated light naphthenic
Distillates (petroleum), solvent-dewaxed light paraffinic

GHS Pictogram:



Signal word: **Danger**

Hazard statement:

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information: -

Precautionary statements – General: -

Precautionary statements – Prevention:

P273 Avoid release to the environment.

Precautionary statements - Response

P301 + P310 + IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

Precautionary statements – Storage: -

Precautionary statements – Disposal:

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

Other liabilities for labelling:

Tactile warning of danger and child-resistant fastening: 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, 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.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical description: Mixture of special refined mineral base oils containing antioxidant.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Distillates (petroleum), hydrotreated light naphthenic REACH Registr. Nr.: 01-2119480375-34	265-156-6	64742-53-6	Asp. Tox. 1 (Note L)	H304	max. 99.6
Distillates (petroleum), hydrotreated light paraffinic* REACH Registr. Nr.: 01-2119487077-29	265-158-7	64742-55-8	- (Note L)	-	max. 50
Distillates (petroleum), solvent-dewaxed light paraffinic REACH Registr. Nr.: 01-2119480132-48	265-159-2	64742-56-9	Asp. Tox. 1 (Note L)	H304	max. 45
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based* REACH Registr. Nr.: 01-2119474889-13	276-738-4	72623-87-1	- (Note L)	-	max. 20
2,6-di-tert-butyl-p-cresol REACH Registr. Nr.: 01-2119555270-46	204-881-4	128-37-0	Aquatic Acute 1 Aquatic Chronic 1	H400 (M=1) H410 (M=1)	max. 0.4

*: 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.

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.



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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.

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

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

Ingestion: Do not induce vomiting. Get prompt medical attention.

Protection of first-aid person: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

In case of ingestion immediately seek medical advice.

SECTION 5: Fire-fighting measures

Fire hazards:

Combustible.

5.1. Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, dry chemical powder, water fog (trained personnel only).

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 firefighting water separately. It must not enter the sewage system.

Contaminated extinguishing water must be disposed of in accordance with official regulations.



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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
Notify relevant authority.

6.3. Methods and material for containment and cleaning up

On soil: All kind of ignition sources should be removed. 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.

Keep away from radiant heat and open flame.

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

Wash hands before breaks and at end of work.

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)

Inhibited insulating oil.



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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

8.2. Exposure controls

Engineering control measures:

Not required.

Personal protection:

- (a) Eye/face protection Where splashing is possible, wear safety glasses (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) (EN 340).
- (c) Respiratory protection Under normal conditions not required. In case of formation of oil mist recommended to use a half face filter mask.
- (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: light yellow, bright, clear
- c) Odour: characteristic
- d) Melting point/freezing point (Pour point) (ISO 3016): typ. -45°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. 140°C
- i) Auto-ignition temperature: not available
- j) Decomposition temperature: not available



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k) pH:	not applicable
l) Kinematic viscosity (EN ISO 3104)	
at 40°C:	typ. 9.3 mm ² /s
at 100°C	not available
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 (DIN EN ISO 12185):	0.855 - 0.875 g/cm ³
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)
Dermal:	LD ₅₀ (rabbit)	> 2000 mg/kg	(based on components)

Components:

Distillates (petroleum), hydrotreated light naphthenic (CAS: 64742-53-6)

Oral:	LD ₅₀ (rat)	> 5000 mg/kg	(literature data)
Dermal:	LD ₅₀ (rabbit)	> 2000 mg/kg	(literature data)
Inhalation:	LC ₅₀ (rat)	> 5.53 mg/L/4 h	(literature data)



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Distillates (petroleum), hydrotreated light paraffinic (CAS: 64742-55-8)

Oral: LD₅₀ (rat) > 5000 mg/kg
Dermal: LD₅₀ (rabbit) > 5000 mg/kg

Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9)

Oral: LD₅₀ (rat) > 5000 mg/kg (literature data)
Dermal: LD₅₀ (rabbit) > 2000 mg/kg (literature data)
Inhalation: LC₅₀ (rat) > 5.53 mg/L/4 h (literature data)

Lubricating oils (petroleum) C20-50, hydrotreated neutral oil-based (CAS: 72623-87-1)

Oral: LD₅₀ (rat) > 5000 mg/kg
Dermal: LD₅₀ (rabbit) > 2000 mg/kg
Inhalation: LC₅₀ (rat) > 5.53 mg/L/4 h

2,6-di-tert-butyl-p-cresol (CAS: 128-37-0)

Oral: LD₅₀ (rat) > 5000 mg/kg (literature data)
Dermal: LD₅₀ (rabbit) > 5000 mg/kg (literature data)

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: Based on available data, the classification criteria are not met.
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: May be fatal if swallowed and enters airways.

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

Harmful to aquatic life with long lasting effects.

Components:

Distillates (petroleum), hydrotreated light naphthenic (CAS: 64742-53-6)

Fish: LC₅₀ > 100 mg/L 96 h
Algae: IC₅₀ > 100 mg/L 48 h



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Distillates (petroleum), hydrotreated light paraffinic (CAS: 64742-55-8)

Fishes (Pimephales promelas):	NOEL	≥ 100 mg/L	96 h
Daphnia (Daphnia magna):	EC ₅₀	> 10000 mg/L	48 h
Daphnia (Daphnia magna):	EC ₅₀	> 10 mg/L	21 days
Daphnia (Daphnia magna):	NOEC	10 mg/L	21 days

Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9)

Fish:	LC ₅₀	> 100 mg/L	
Other aquatic organisms:	EC ₅₀	> 100 mg/L	
Algae:	ErC ₅₀	> 100 mg/L	
Crustacea:	NOEC	> 1 mg/L	

Lubricating oils (petroleum) C20-50, hydrotreated neutral oil-based (CAS: 72623-87-1)

Fish:	LC ₅₀	> 100 mg/L	
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2,6-di-tert-butyl-p-cresol (CAS: 128-37-0)

Fish (Danio rerio):	LC ₅₀	> 0.57 mg/L	96 h
Daphnia (Daphnia magna):	EC ₅₀	> 0.17 mg/L	48 h
Daphnia (Daphnia magna):	NOEC	> 0.39 mg/L	21 days
Algae (Desmodesmus subspicatus):	IC ₅₀	> 0.42 mg/L	72 h

12.2. Persistence and degradability	No data available.
Biodegradability:	Hydrocarbons are inherently degradable.
<i>2,6-di-tert-butyl-p-cresol (CAS: 128-37-0)</i>	30% (MITI test II); 4.5 % (OECD 301C)
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:	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.

Waste Identification Code: 13 03 07*

Mineral-based non-chlorinated insulating and heat transmission oils.

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.

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. 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.

14.7. Maritime transport in bulk according to IMO instruments

Does not apply.

Waterways:

Sea transport

IMDG:

Not apply to the product.

Inland waterways

ADN:

14.1. UN number or ID number

ID 9006



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14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es)	9 (M12)
14.4. Packing group	-
14.5. Environmental hazards	not dangerous
Marine pollutant (IMDG):	no
14.6. Special precautions for user	-
14.7. Maritime transport in bulk according to IMO instruments	Not applicable.
Air transport:	ICAO / IATA: Not apply to the product.

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 (EC) 1272/2008 (CLP)

Asp. Tox. 1	H304	calculated + viscosity
Aquatic Chronic 3	H412	calculated



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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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Asp. Tox. 1	Aspiration hazard Category 1
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1

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%
ErC ₅₀	EC ₅₀ in terms of reduction of growth rate
Ed _x	Effective Dose x%
EC	European Community
EC number	European Community number
ELINCS	European List of Notified Chemical Substances
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



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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 3 11 16	Hazards identification Composition / information on ingredients Toxicological information Other information Other correction	19. 01. 2009	2
3 1-16	Composition/information on ingredients Regulatory information, other corrections Revision modification according to 453/2010/EC	30. 06. 2011	3
2 3 4 11 1-16	Hazards identification Composition/information on ingredients First aid measures Toxicological information Revision modification according to 1272/2008/EC	19. 08. 2011	4
1 9 1-16	Details of the supplier of the safety data sheet, Responsible for SDS Physical and chemical properties Other corrections, Revision modification according to 2015/830 /EC	16. 09. 2015	5
2, 14 2.2 1-16	Hazards identification Regulatory information Label elements Other corrections	01. 02. 2018	6



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Section	Subject of change	Date	Version
3	Composition/information on ingredients	29. 03. 2019	7
1-16	Revision modification according to 2020/878/EU Full revision due to composition change	18. 07. 2022	8
3	Composition/information on ingredients	11. 01. 2023	9
11	Toxicological information		
12	Ecological information		
2.3	Other hazards	03. 05. 2023	9.1
14	Transport information		
14	Transport information	20. 11. 2024	10
1-16	Other corrections		