MOL-LUB Ltd.

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

Trade name: MOL Transfluid TO-4 SAE 30 gear oil

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

### 1.1 Product identifier:

### MOL Transfluid TO-4 SAE 30 gear oil

1.2 Relevant identified uses of the mixture and uses advised against

Relevant identified uses: gear 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 SD and HSE

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<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:

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#### 2. Hazards identification

2.1 Classification of the mixture

2.1.1 Classification of the mixture according to regulation 1272/2008/EC

Hazard Class and Category: Hazard statement:

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.1.2 Classification of the mixture according to regulation 1999/45/EC

Human health hazards: Danger symbol not required.

Note: 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: Danger symbol not required.

R 52/53: Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

2.2 Label elements 1272/2008/EC

Product identification: Trade name: MOL Transfluid TO-4 SAE 30 gear oil

GHS Pictogram: **not required**Signal word: **not required** 

Hazard statement:

**H412** Harmful to aquatic life with long lasting effects.

Supplemental hazard information:

**EUH208** Contains Calcium sulphonate. May produce an allergic reaction.

Precautionary statements – Prevention:

**P273** Avoid release to the environment.

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.

2.3 Other hazards

No data available.

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# 3. Composition/information on ingredients

### 3.1 Mixtures

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

Component(s) / Hazardous component(s):

Name	EU number	CAS number	Hazard symbol / Hazard classes and cat.	Risk phrase / Hazard statements	Conc. %(m/m)
Lubricating oils (petroleum), C>25* REACH Registr. Nr.: 01-2119486948-13	309-874-0	101316-69-2	67/548/EEC: - (Note L) 1272/2008/EC: - (Note L)	-	
Lubricating oils (petroleum), C24- C50* REACH Registr. Nr: 01-2119489969-06	309-877-7	101316-72-7	67/548/EEC: - (Note L) 1272/2008/EC: Asp. Tox. 1 (Note L)	H304	max. 95
Zinc bis[bis (tetra- propylenephenyl)] bis (hydrogen dithiophosphate) REACH Registr. Nr: 01-2119972705-28	234-277-6	11059-65-7	67/548/EEC: - 1272/2008/EC: Aquatic Chronic 3	R 52/53 H412	max. 2.6
Calcium sulphonate	polymer		67/548/EEC: Xi 1272/2008/EC: Eye Irrit. 2 Skin Sens. 1	R 43 H319 H317	max. 0.85
3-(decyloxy)tetra- hydrothiophene 1,1-dioxide REACH Registr. Nr: 01-2119969520-35	242-556-9	18760-44-6	67/548/EEC: N 1272/2008/EC: Aquatic Chronic 2	R 51/53 H411	max. 0.85
Phenol, dodecyl-, branched	310-154-3	121158-58-5	67/548/EEC: Xn, N	R 62, R 36/38 R 50/53	max. 0.45
REACH Registr. Nr: 01-2119513207-49			1272/2008/EC: Repr. 2 Skin Irrit. 2 Eye Irrit. 2 Aquatic Acute 1 Aquatic Chronic 1	H361 H315 H319 H400 H410	

<sup>\*:</sup> with exposure limit

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

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#### 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 Remove contaminated clothing. Wash skin with large amounts of water, use

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

4.2 Most important symptoms and effects, both acute and delayed

No data.

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.

5.2 Special hazards arising from the mixture

Hazardous combustion products:

On burning, carbon monoxide, carbon dioxide, sulphur oxides, calcium oxide, 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.

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#### 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.

#### 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

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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)

Gear oil.

### 8. Exposure controls / personal protection

Engineering control measures:

Not required.

8.1 Control parameters:

Mineral oil mist: TWA: 5 mg/m<sup>3</sup>; STEL: 10 mg/m<sup>3</sup>, for oil mist, vapour

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.

Eye protection: Protective goggles not required.
Skin protection: Protective clothing (oil resistant).

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: yellow, clear Odour: characteristic

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Change in physical state:

Pour point (ISO 3016): typ. -30°C Boiling point: typ. -30°C not available

Others:

Flash point (COC) (EN ISO 2592): typ. 235°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  $15^{\circ}$ C (EN ISO 12185):  $0.897 - 0.911 \text{ g/cm}^3$ 

Solubility in water: practically insoluble in water Solubility in other solvents: gasoline, kerosene, toluene, etc.

n-Octanol/water partition coefficient:

Vapour density:

Heating value:

Kinematic viscosity at 40°C (EN ISO 3104):

Kinematic viscosity at 100°C (EN ISO 3104):

pH:

not available

not available

typ. 109.3 mm²/s

typ. 11.3 mm²/s

not applicable

9.2 Other information

No data available.

### 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

products: conditions. Hazardous combustion products: See Section 5.

#### 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

 $\begin{array}{lll} \text{Oral:} & LD_{50} \ (\text{rat}) & > 2000 & \text{mg/kg} & \text{(based on components)} \\ \text{Dermal:} & LD_{50} \ (\text{rabbit}) & > 2000 & \text{mg/kg} & \text{(based on components)} \end{array}$ 

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Acute toxicity: irritation

Skin: not irritant (based on components)
Eye: not irritant (based on components)

Note: Prolonged and/or repeated contact may cause irritation on skin or in eyes

depending on individual sensitivity.

Respiratory or skin sensitisation: not sensitising (based on components)

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.

Germ cell mutagenicity: not known, resp. not mutagen (based on components)

Carcinogenicity: not known, resp. not carcinogen (based on

components)

Reproductive toxicity: not known, resp. no reproduction-damaging effect

(based on components)

STOT-single exposure: not known STOT-repeated exposure: not known not known not known

### 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

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12.6 Other adverse effects

Heavy metal content: None. PCT, PCB and other chlorinated None.

hydrocarbons:

Environmental effects: Harmful to aquatic life with long lasting effects.

Water hazard class (German): No data available.

# 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.

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Waterways:

Inland waterways/ Sea transport ADN/IMDG: Not classified.

Air transport: ICAO / IATA: Not classified.

### 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.: 453/2010/EC) and to Regulation (EC) 1272/2008.

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)

Aquatic Chronic 3 H412 calculated method

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Waterways

Acute Toxicity Estimate

Biocontrentration Factor

ADR ATE

**BCF** 

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R 36/38	Irritating to eyes and skin.	
R 43	May cause sensitisation by skin contact.	
R 50/53	Very toxic to aquatic organisms, may cause long-term adverse effectin the aquatic environment.	
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in aquatic environment.	
R 52/53	Harmful to aquatic organisms, may cause long-term adverse effethe aquatic environment.	
R 62	Possible risk of impaired fertility.	
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.	
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.	
H412	Harmful to aquatic life with long lasting 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 Irrit. 2	Serious eye damage/eye irritation Category 2	
Repr. 2	Reproductive toxicity Category 2	
Aquatic Acute 1	Hazardous to the aquatic environment, Acute Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment, Chronic Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment, Chronic Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment, Chronic Category 3	

European Agreement concerning the International Carriage of Dangerous Goods by Road

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BOD Biological Oxigen Demand

Bw Body Weight

C&L Classification and Labeling CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging

CMR Carcigonic, 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 Cheamicals Agency
Ecx Effective Concentration x%

Edx Effective Dose x%

ELINCS European List of Notified Chemical Substances ErC50 EC50 in terms of reduction of growth rate;

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%

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

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

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Revision Indicators:						
Section	Subject of change	Date	Version			
3	Composition/information on ingredients	27.06.2013	2			
9	Physical and chemical properties					
1-16	Revision modification according to 453/2010/EC and					
	1272/2008/EC					
3	Composition/information on ingredients	24.11.2014	3			
1-16	Other corrections					