

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

Trade name: MOL Botond 20W-50 multigrade motor oil

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

1.1 Product identifier:

MOL Botond 20W-50 multigrade motor oil

1.2 Relevant identified uses of the <u>mixture</u> or substance and uses advised against

Relevant identified uses: multigrade motor oil

Uses advised against: no data

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. 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 Classification of the <u>mixture</u> or substance

Hazard Class and Category: Hazard statement:

Not classified.



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2.2 Label elements

Product identification: Trade name: MOL Botond 20W-50 multigrade motor oil

Hazardous components: -

GHS Pictogram: not required Signal word: not required

Hazard statement: **Not required.**

Supplemental hazard information: -

Precautionary statements - General: -

Precautionary statements – Prevention:

P273 Avoid release to the environment.

Precautionary statements - Response: -

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.

2.3 Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.

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SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Mixture of refined mineral oils with additives.

Component(s) / Hazardous component(s):

| Name | EU | CAS | Hazard classes | Hazard | Conc. |
|------------------------|-----------|-------------|-------------------|------------|-----------|
| | number | number | and cat. | statements | %(m/m) |
| Lubricating oils | 309-877-7 | 101316-72-7 | = | = | max. 96 |
| (petroleum), C24- C50* | | | (Note L) | | |
| REACH Registr. Nr.: | | | | | |
| 01-2119489969-06 | | | | | |
| Lubricating oils | 305-594-8 | 94733-15-0 | = | - | max. 40 |
| (petroleum), C18- C40* | | | (Note L) | | |
| REACH Registr. Nr.: | | | | | |
| 01-2119486987-11 | | | | | |
| Lubricating oils | 309-874-0 | 101316-69-2 | - | = | max. 25 |
| (petroleum), C>25* | | | (Note L) | | |
| REACH Registr. Nr.: | | | | | |
| 01-2119486948-13 | | | | | |
| Zinc alkyl | 283-392-8 | 84605-29-8 | Skin Irrit. 2 | H315 | max. 0.85 |
| dithiophosphate** | | | Eye Dam. 1 | H318 | |
| REACH Registr. Nr.: | | | Aquatic Chronic 2 | H411 | |
| 01-2119493626-26 | | | | | |

^{*:} with exposure limit

** Specific concentration limit:

Skin Irrit. 2: 6.25 % \leq C \leq 100 %; Eye Irrit. 2: 10 % < C \leq 12.5 %;

Eye Dam. 1: 12.5 % < C \le 100 %

The full text of each relevant Hazard classes and cat., H- phrase 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.



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Skin contact: Remove contaminated clothing. 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: If swallowed, give water. Do not induce vomiting. Get medical attention.

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

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 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, 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.



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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 remove. Recover free liquid by

pumping. Contain spilled liquid 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.

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:

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)

Multigrade motor oil.

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SECTION 8 Exposure controls / personal protection

Engineering control measures:

Not required.

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

Personal protection:

Respiratory protection: Under normal conditions not required. In case of exceeded

exposure-limits respiratory protection with particle-filter is

recommended

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: Where splashing is possible, wear safety glasses (EN 166).

Skin protection: Protective clothing (oil resistant).

Other special: 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

Appearance:

Physical state: liquid
Colour: brown, clear
Odour: characteristic

Change in physical state:

Pour point (ISO 3016): typ. -24°C Boiling point (DIN 51356): not available



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Others:

Flash point (COC) (EN ISO 2592): typ. 240°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° C (EN ISO 12185): $0.880 - 0.900 \text{ g/cm}^3$

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

n-Octanol/water partition coefficient:

Heating value:

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

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

pH:

not available
inf. 38 000 kJ/kg
typ. 160.5 mm²/s
typ. 17.4 mm²/s
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

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

SECTION 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Not available.

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

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Acute toxicity: irritation

Skin: not irritant (based on components)

Eye: not irritant (based on components)

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

Other information, specific effects:

Note L: The base oil(s) contain(s) less than 3% DMSO extract (IP 346), therefore not

classified as carcinogenic material according to 1272/2008/EC.

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 classified STOT-repeated exposure: not classified Aspiration hazard: not classified

SECTION 12 Ecological information

12.1 Toxicity Not available.

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 water: Floats on water.

Mobility in soil: Absorbs in soil.

12.5 Results of PBT and vPvB assessment Does not contain PBT and vPvB substances.

12.6 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 VwVwS)



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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

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:

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 1272/2008/EC regulation, Annex XVII. of REACH

Relevant Hungarian and EU regulations

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

(CLP)

Not classified. -

The full text of each relevant Hazard classes and cat., H- phrase 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



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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

Acute Toxicity Estimate ATE **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)

Carcigonic, Mutagenic or toxic to Reproduction **CMR**

Chamical Oxygen Demand COD **CSA** Chemical Safety Assessment Chemical Safety Report CSR Derived Minimal Effect Level **DMEL** Derived No Effect Level **DNEL** European Cheamicals Agency **ECHA** 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

Exposure Scenario ES

European Chemical Substances Information System **ESIS IARC** International Agency for Research on Cancer International Air Transport Association **IATA** International Maritime Dangerous Goods **IMDG**

LCx Lethal Concentration x%

LDx Lethal Dose x%) Halálos dózis x%

LOAEC Lowest Observed Adverse Effect Concentration

Lowest Observed Adverse Effect Level LOAEL LOEC Lowest Observed Effect Concentration

Lowest Observed Effect Level LOEL No observed effect concentration **NOEC**

NOEL No observed effect level No-Longer Polymer **NLP**

No Observed Adverse Effect Level NOAEL

Organisation for Economic Cooperation and Development **OECD**

PBT Persistent Bioaccumulative and Toxic Predicted No-Effect Concentration **PNEC**

parts/million ppm

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International carriage of Dangerous Goods by Rail



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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 | 20.07.2012 | 2 |
| 9 | Physical and chemical properties | | |
| 1-16 | Regulatory information, other corrections. | | |
| | Revision modification according to 453/2010/EC | | |
| 1-16 | Regulatory information, other corrections. | 29.10.2012 | 3 |
| | Revision modification according to 1272/2008/EC | | |
| 1 | Details of the supplier of the safety data sheet, Responsible for | 20.07.2015 | 4 |
| | 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 | | |
| 3 | Composition/information on ingredients | 11.01.2018 | 5 |
| 1-16 | Other corrections | | |
| 3 | Composition/information on ingredients | 16.07.2018 | 6 |
| 4, 5, 8 | First aid measures. Fire-fighting measures. | | |
| | Exposure controls / personal protection | | |