

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

Trade name: MOL Liton LT 2EP lithium-base lubricating grease

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1. Section Identification of the mixture/substance and of the company/undertaking

1.1 Product identifier:

MOL Liton LT 2EP lithium-base lubricating grease

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

Relevant identified uses: lithium-base lubricating grease

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

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:



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2. Section Hazards identification

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

Hazard Class and Category: Hazard statement:

Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements

Product identification:

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Hazardous components:

Pictogram:

<u>(!)</u>

Signal word: Warning

Hazard statement:

H319 Causes serious eye irritation.

Supplemental hazard information: -

Precautionary statements - General: -

Precautionary statements – Prevention:

P280 Wear eye/face protection.

P273 Avoid release to the environment.

Precautionary statements – Response:

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove

P338 contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Precautionary statements - Storage: -

Precautionary statements – Disposal:

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



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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.

3. Section Composition/information on ingredients

3.2 Mixtures

Chemical description: Mineral oil and synthetic oil based consistent lubricant

containing lithium soap and additives.

Component / Hazardous component(s):

Name	EU	CAS	Hazard classes and	Hazard	Conc.
Name	number	number	cat.	statements	%(m/m)
Lubricating oils	309-877-7	101316-72-7	Asp.Tox.1	H304	max. 15
(petroleum), C24-			(Note L)		
C50					
REACH Registration Nr.:					
01-2119489969-06					
Lubricating oils	309-874-0	101316-69-2	-	-)	
(petroleum), C>25			(Note L)		
REACH Registration Nr.:					
01-2119486948-13					
Distillates (petroleum),	265-155-0	64742-52-5	=	- >	max. 90
hydrotreated heavy			(Note L)	(
naphthenic					
REACH Registration Nr.:					
01-2119467170-45					
Zinc alkyl	272-028-3	68649-42-3	Skin Irrit. 2	H315	max. 1.5
dithiophosphate			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.



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4. Section 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. Seek medical attention.

Skin Remove contaminated clothing. Wash with plenty amount of water, using

contact: soap. In case of persistent irritation, get medical advice.

Eye contact: Flush eyes with large amounts of water for at least 15 minutes. Get medical

attention.

Ingestion: If swallowed, give drink salted lukewarm water. Induce vomiting. Get

medical attention.

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment need

Not required.

5. Section Fire-fighting measures

Fire hazards:

Combustible.

5.1 Extinguishing media

Suitable extinguishing media:

Sand, carbon dioxide, dry chemical powder.

Unsuitable extinguishing media:

Water jet.

5.2 Special hazards arising from the mixture or substance

Hazardous combustion products:

On burning, carbon monoxide, carbon dioxide, sulphur oxides, phosphor oxides, various hydrocarbons and soot can be formed.



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5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations.

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. Section 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: Take up spilled product with shovel or scoop. Residuals should be cleaned

up with cloths and/or sawdust. Dispose of the collected material as

hazardous waste, according to local regulations.

On water: Confine the spillage. Remove from surface by skimming. Notify local

authorities according to regulations.

6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

7. Section Handling and storage

7.1 Precautions for safe handling

General measures for handling lubricant greases should be observed.

Avoid splashing the product.

Avoid contact with skin and eyes.

Ensure washing facilities after working hours and before breaks.





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Take off contaminated or oil-soaked clothing immediately, wash with warm water and soap.

After splashing floor may be slippery, use care to avoid falling, contain spills immediately.

When using do not eat, drink or smoke.

Handling temperature: not available

7.2 Conditions for safe storage, including any incompatibilities

Store in dry, well ventilated place in original, tightly closed containers.

Keep away from direct heat, ignition sources and strong oxidizing agents.

Recommended storage temperature: max. 45°C

7.3 Specific end use(s)

Lithium-base lubricating grease.

8. Section Exposure controls / personal protection

Engineering control measures:

Not required.

8.1 Control parameters: -

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: Tightly fitting safety goggles.
Skin protection: Protective clothing (oil resistant).

Other special: no data

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.





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9. Section Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state: consistent

Colour: brown, homogenous

Odour: characteristic

Change in physical state:

Dropping point (ISO 2176): typ. 195°C Pour point: typ. 195°C not available

Others:

Flash point (COC) (EN ISO 2592): > 200°C (base oil)
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 20°C: not available

Solubility in water: practically insoluble in water

n-Octanol/water partition coefficient: not available Penetration after working – 60 c, at 25°C typ. 280

(0,1 mm) (ISO 2137):

pH: not applicable

9.2 Other information

no data available

10. Section 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, open flames.

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.





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11. Section Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Oral: LD_{50} (rat) > 2000 mg/kg (based on components) Dermal: LD_{50} (rabbit) > 2000 mg/kg (based on components)

Acute toxicity: irritation

Skin: not irritant (based on components)

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

on individual sensitivity.

Eye: irritant (based on components), causes serious eye irritation

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

12. Section Ecological information

12.1 Toxicity No data available.

Aquatic organisms: Soil organisms:

Plants:

12.2 Persistence and degradability

Biodegradability: No data available.





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12.3 Bioaccumulative potential No data available.

12.4 Mobility

Mobility in soil: Soil is not mobile.

Mobility in water: Floats on water. Does not form continuous layer. Does not contain PBT and vPvB substances.

12.5 Results of PBT and vPvB

assessment

12.6 Other adverse effects

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

hydrocarbons:

Environmental effects: Large spillages may be hazardous to the environment.

WGK 1 (Classification by VwVwS) Water hazard class (German):

13. Section 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: 12 01 12*

Spent waxes and fats.

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.

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.



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14. Section Transport information

Land 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: -

Waterways:

Inland waterways/ Sea transport ADN/IMDG: Not apply to the product.

Air transport: ICAO / IATA: Not apply to the product.

15. Section 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 2015/830 and to Regulation (EC) 1272/2008.

15.2 Chemical safety assessment.

16. Section 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.





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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)

Eye Irrit. 2 H319 (calculated)

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

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Asp.Tox.1 Aspiration hazard Category 1

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

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 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



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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

Revision Indicators:

Section	Subject of change	Date	Version
3	Ingredients / Hazardous components	24.04.2008	2
3	Ingredients / Hazardous components	01.08.2008	3
16	The full text of each relevant R phrase in Section 3		
1-16	Other corrections		
2	Hazards identification	16.09.2011	4
3	Composition/information on ingredients		
5	Fire-fighting measures		
12	Ecological information		
16	Other information		
1-16	Revision modification according to 453/2010/EC		





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3	Composition/information on ingredients	01.08.2012	5
1-16	Revision modification according to 1272/2008/EC		
2	Hazards identification	27.09.2013	6
3	Composition/information on ingredients		
4	First aid measures		
11	Toxicological information		
12	Ecological information		
1	Details of the supplier of the safety data sheet, Responsible for SDS	17.06.2015	7
2	Other hazards		
3	Composition/information on ingredients		
5	Fire hazards		
12	Ecological information		
14	Transport information		
1-16	Other corrections, revision modification according to 2015/830 /EC		
1-16	Other corrections	01. 06. 2016	8