

SAFETY DATA SHEET

according to Regulation No. 1907/2006 (REACH) and Commission Regulation (EU) 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**Chemical name/ trade name: **GREASE LV 2-3**Producer: **OMA CZ, a.s.**
Address: **Stráž pod Ralskem, 47127, Borová 103****1.2 Relevant identified uses of the substance or mixture and uses advised against**

Intended use: Plastic grease for lubrication of sliding and rolling bearings of machines.

Uses advised against: The use should be limited to those listed above.

1.3 Details of the supplier of the safety data sheetSupplier of SDS: OMA CZ, a.s.
Address: Stráž pod Ralskem, 47127, Borová 103
Identification No.: 25406761
Tel: +420 487 851 016
www: www.omacz.cz
Responsible person for this SDS: OMA CZ, a.s., laborator@omacz.cz**1.4 Emergency telephone number****National Poisons Information Service (NPIS), Royal Infirmary of Edinburgh, Edinburgh EH16 4SA, United Kingdom, Tel.: +44 121 507 4123, 844 892 0111****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****The product is not classified as dangerous according to Regulation (EC) No 1272/2008 (CLP).****2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictogram(s): None.

Signal word(s): None.

Contain: -

Hazard statement(s): None.

Precautionary statement(s): None.

Supplemental information: EUH210 Safety data sheet available on request.

2.3 Other hazards

This product does not contain any substances which are classified as PBT or vPvB in a concentration of 0.1% by weight or higher.

This product does not contain SVHC in a concentration of 0.1% by weight or higher.

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

4.3 Indication of any immediate medical attention and special treatment needed

The doctor decides on further action after assessing the condition of the injured person.

Notes for the physician:

Treat symptomatically. Inhalation of the product into the lungs after vomiting may lead to chemical pneumonia. Prolonged or repeated contact with the product may cause irritation skin. Pressure wounds require immediate surgical intervention to minimise tissue damage and loss of function.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Alcohol resistant foam, dry extinguishing powder (A, B, C), carbon dioxide (snow extinguisher), sand, soil, water mist. Use extinguishing methods appropriate to ambient conditions.

Unsuitable extinguishing media: Direct water flow - could cause fire to spread.

5.2 Special hazards arising from the substance or mixture

In case of fire, high temperatures release toxic decomposition products containing carbon oxides, aldehydes, soot and unidentified organic and inorganic compounds.

5.3 Advice for firefighters

Respiratory units exposed to smoke or vapors must be equipped with respiratory and eye protection devices. When using in enclosed areas, an insulating respirator must be used. Containers exposed to fire cool with water mist. Collect extinguishing water separately, and avoid its penetration into the soil and water. Chemical protective clothing (EN 469).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, replace contaminated clothing. Avoid contact with skin and eyes, contamination of clothes and shoes. Ensure ventilation of the affected area. All persons who do not participate in rescue operations to a safe distance.

6.2 Environmental precautions

Prevent leakage into the environment, avoid ingress into surface water and sewers, soil and land. In case of leakage into the sewage system or water course, inform immediately its administrator, the police, the fire brigade or the environmental department.

6.3 Methods and material for containment and cleaning up

In case of leakage, localize and, if possible, absorb / remove mechanically. Residues or smaller amounts sweep / get absorbed into a suitable absorbent (universal sorbent, diatomaceous earth, soil, sand) and place in suitable containers and labeled for disposal transmit in accordance with applicable regulations.

6.4 Reference to other sections

See section 7, 8 a 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Use appropriate PPE. Use only in well-ventilated areas with fresh air intake or with adequate ventilation. Do not eat, drink, smoke. After working, wash your hands. Comply with regulations on health and safety at work.

7.2 Conditions for safe storage, including any incompatibilities

Store in well-sealed original containers in a dry, cool and well-ventilated place. Do not store with food, drink or feed. Avoid direct sunlight, heat sources, hot surfaces and open flames. Keep away from strong oxidizing agents.

7.3 Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits: According to national legislation of target country.

Substance	CAS	Permissible exposure limits (mg/m ³)	Maximum permissible concentration (mg/m ³)	Note
Mineral oils	-	5	10	

Substances with Community Exposure Limits:

Substance	CAS	Limit values (mg/m ³)		Note
		OEL	STEL	
No data available.				

DNEL

Lithium 12-hydroxystearate (CAS: 7620-77-1)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
Workers				
	Short-term (acute)	systemic	mg/kg bw/d	0.172 mg/cm ²
Consumers				
	Short-term (acute)	systemic	mg/kg bw/d	0.086 mg/cm ²

Distillates (petroleum), hydrotreated heavy naphthenic (CAS: 64742-52-5)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
Workers				
Inhalation	Long-term (chronic)	systemic	mg/m ³	2.73
	Short-term (acute)	systemic	mg/m ³	5.58
Dermal	Long-term (chronic)	systemic	mg/kg bw/d	0.97
Consumers				
Oral	Long-term (chronic)	systemic	mg/kg bw/d	0.74

Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
Workers				
Inhalation	Long-term (chronic)	systemic	mg/m ³	2.73
	Short-term (acute)	systemic	mg/m ³	5.58
Dermal	Long-term (chronic)	systemic	mg/kg bw/d	0.97
Consumers				
Oral	Long-term (chronic)	systemic	mg/kg bw/d	0.74

PNEC

Distillates (petroleum), hydrotreated heavy naphthenic (CAS: 64742-52-5)

Component of the environment	PNEC	Unit	Value
Food chain	PNEC _{oral}	mg/kg food	9.33

Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)

Component of the environment	PNEC	Unit	Value
Food chain	PNEC _{oral}	mg/kg food	9.33

DNELs and PNECs values for the other components of the mixture haven't been determined.

8.2 Exposure controls

Technical measures:

Technical measures and appropriate work procedures take precedence over personal protective equipment. Observe the usual hygiene principles. Do not eat, drink, smoke. Before breaks and after work wash your hands with warm water and soap.

Individual protection measures

Respiratory protection:

If the exposure limits are exceeded, when using dust, fog, aerosol, use a suitable filter (type ABEK -EN 14387 - anti-gas and combined filters, type P -EN 143 - particle filters, type FFP3 / FFP2 - EN 149+A1 - Particle-based half masks; EN 142 - mouth masks).

Hand protection:

Protective working gloves (EN 374). Observe the manufacturer's exact instructions, including the time of use. Replace damaged gloves.

Eye / face protection:

Safety glasses with side-plates or facial shields (EN 166).

Skin protection:

Working clothes (EN ISO 13688) and footwear (EN ISO 20347). Protective clothing against liquid chemicals (EN 14605+A1). Protective clothing against chemicals (EN ISO 14325).

Thermal hazards:

No data available.

Environmental exposure controls:

Avoid unnecessary releases into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property	Value	Method
Physical state:	Paste	
Colour:	Green	
Odour:	Specific for greases	
Odour threshold:	No data available.	
pH :	No data available.	

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Melting point / freezing point (°C):	No data available.		
Boiling point or initial boiling point and boiling range (°C):	> 300		
Flash point (°C):	> 200		
Evaporation rate:	No data available.		
Flammability (gases, liquids and solids):	No data available.		
Lower and upper explosion limit:	No data available.		
Vapour pressure (20 °C):	No data available.		
Vapour pressure (50 °C):	No data available.		
Relative vapour density:	No data available.		
Density and/or relative density (g/cm ³ , 20 °C):	0.95		
Solubility (20 °C):	Insoluble in water, soluble in hydrocarbon solvents.		
Partition coefficient n-octanol/water (log value):	No data available.		
Auto-ignition temperature (°C):	> 250		
Decomposition temperature:	No data available.		
Kinematic viscosity:	No data available.		
Refractive index (20 °C):	No data available.		
Oxidising properties:	No data available.		
Explosive properties:	No data available.		
Particle characteristics:	No data available.		

9.2 Other information

VOC (%):	0
Dry matter content:	No data available.
Dropping point (°C):	> 180

9.2.1 Information with regard to physical hazard classes

The product has no physical hazards.

9.2.2 Other safety characteristics

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

Not expected under proper conditions of use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

May react with strong oxidizing agents.

10.4 Conditions to avoid

Direct sunlight, high temperatures, hot surfaces, open flames.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon oxides, aldehydes, unidentified organic and inorganic compounds.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Individual components**

Lithium 12-hydroxystearate (CAS: 7620-77-1)

Acute toxicity:

Test type	Results	Exposure	Tested organisms
OECD 420, key study	> 2 000 mg/kg bw, LD50	oral: gavage	rat
OECD 402, key study	> 2 000 mg/kg bw, LD50	dermal	rat

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
OECD 492, key study	other: Test currently ongoing	Eye	

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
key study	not irritating	Skin	other: EPISKIN (TM) human epidermis model

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
key study	other:	Skin	

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		

STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
supporting study	1 000 mg/kg bw/day (nominal), NOAEL 88 mg/kg bw/day (nominal), NOAEL	oral	rat
OECD 422, key study	1 089.75 mg/kg bw/day, NOAEL 111.25 mg/kg bw/day, NOAEL	dermal	rat

Carcinogenicity:

Test type	Results	Exposure	Tested organisms
	No data available.		

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
OECD 471, key study	not determined	In vitro	

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
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OECD 422, key study	> 1 089.75 mg/kg bw/day, NOAEL 111.25 mg/kg bw/day, other: > 1 089.75 mg/kg bw/day, NOAEL	dermal	rat
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Aspiration hazard:

Test type	Results	Exposure	Tested organisms
	No data available.		

Distillates (petroleum), hydrotreated heavy naphthenic (CAS: 64742-52-5)

Acute toxicity:

Test type	Results	Exposure	Tested organisms
OECD 401, key study	> 5 000 mg/kg bw, LD50	oral: gavage	rat
OECD 402, key study	> 2 000 mg/kg bw, LD50	dermal	rabbit
OECD 403, key study	2.18 mg/L air	inhalation: aerosol	rat

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
OECD 405, key study	not irritating	Eye	rabbit

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
OECD 404, key study	study cannot be used for classification	Skin	rabbit

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
OECD 406, key study	not sensitising	Skin	guinea pig

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		

STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
OECD 408, key study	125 mg/kg bw/day (nominal), NOAEL	oral	rat
key study	ca. 220 mg/m ³ air (analytical), NOEL > 980 mg/m ³ air (analytical), NOAEL	inhalation	rat
OECD 411, key study	>= 2 000 mg/kg bw/day (nominal), NOAEL	dermal	rat

Carcinogenicity:

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Test type	Results	Exposure	Tested organisms
OECD 451, key study	non-carcinogenic, other:	dermal	mouse

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
OECD 474, key study	negative	oral gavage or intraperitoneal injection	mouse

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
OECD 421, key study	>= 1 000 mg/kg bw/day (nominal), NOAEL >= 1 000 mg/kg bw/day (nominal), NOAEL	dermal	rat

Aspiration hazard:

Test type	Results	Exposure	Tested organisms
	No data available.		

Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)

Acute toxicity:

Test type	Results	Exposure	Tested organisms
OECD 401, key study	> 5 000 mg/kg bw, LD50	oral: gavage	rat
OECD 402, key study	> 5 000 mg/kg bw, LD50	dermal	rabbit
OECD 403, key study	2.18 mg/L air	inhalation: aerosol	rat

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
OECD 405, key study	not irritating	Eye	rabbit

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
OECD 404, key study	study cannot be used for classification	Skin	rabbit

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
OECD 406, key study	not sensitising	Skin	guinea pig

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
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	No data available.		
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STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
OECD 408, key study	125 mg/kg bw/day (nominal), NOAEL	oral	rat
OECD 412, key study	ca. 220 mg/m ³ air (analytical), NOEC > 980 mg/m ³ air (analytical), NOAEC	inhalation	rat
OECD 410, key study	ca. 1 000 mg/kg bw/day, NOAEL	dermal	rabbit

Carcinogenicity:

Test type	Results	Exposure	Tested organisms
OECD 451, key study	non-carcinogenic, other:	dermal	mouse

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
OECD 474, key study	negative	oral gavage or intraperitoneal injection	mouse

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
OECD 421, key study	>= 1 000 mg/kg bw/day, NOAEL >= 1 000 mg/kg bw/day, NOAEL	oral: gavage	rat

Aspiration hazard:

Test type	Results	Exposure	Tested organisms
	No data available.		

mixture

Acute toxicity:	The product does not meet the criteria for classification.
Serious eye damage / irritation:	The product does not meet the criteria for classification.
Skin corrosion / irritation:	The product does not meet the criteria for classification.
Respiratory or skin sensitisation:	The product does not meet the criteria for classification.
STOT - single exposure:	The product does not meet the criteria for classification.
STOT - repeated exposure:	The product does not meet the criteria for classification.
Carcinogenicity:	The product does not meet the criteria for classification.
Germ cell mutagenicity:	The product does not meet the criteria for classification.
Reproductive toxicity:	The product does not meet the criteria for classification.
Aspiration hazard:	The product does not meet the criteria for classification.

**11.2 Information on other hazards
Endocrine disrupting properties**

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

Other information

No data available.

SECTION 12: Ecological information
12.1 Toxicity

The product does not meet the criteria for classification.

Lithium 12-hydroxystearate (CAS: 7620-77-1)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Oncorhynchus mykiss</i>	> 100 mg/L, LL50 / 96 h 100 mg/L, NOELR / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Daphnia magna</i>	> 100 mg/L, EL50 / 48 h 100 mg/L, NOELR / 48 h	OECD 202
Acute toxicity to aquatic algae	<i>Pseudokirchneriella subcapitata</i>	> 160 mg/L, EL50 / 72 h 160 mg/L, NOELR / 72 h	OECD 201
Biotic degradation		Readily biodegradable (100%)	
log Kow / log Pow		5.7 - 8.83 @ 20 °C and pH 7	

Distillates (petroleum), hydrotreated heavy naphthenic (CAS: 64742-52-5)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Pimephales promelas</i>	> 100 mg/L, LL50 / 96 h ≥ 100 mg/L, NOEL: / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Daphnia magna</i>	> 10 000 mg/L, EL50 / 24 h > 10 000 mg/L, EL50 / 48 h ≥ 10 000 mg/L, NOEL: / 48 h	OECD 202
Acute toxicity to aquatic algae	<i>Raphidocelis subcapitata</i>	≥ 100 mg/L, NOEL: / 72 h ≥ 100 mg/L, NOEL: / 72 h	OECD 201

Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Pimephales promelas</i>	> 100 mg/L, LL50 / 96 h ≥ 100 mg/L, NOEL: / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Daphnia magna</i>	> 10 000 mg/L, EL50 / 24 h > 10 000 mg/L, EL50 / 48 h ≥ 10 000 mg/L, NOEL: / 48 h	OECD 202
Acute toxicity to aquatic algae	<i>Raphidocelis subcapitata</i>	≥ 100 mg/L, NOEL: / 72 h ≥ 100 mg/L, NOEL: / 72 h	OECD 201

12.2 Persistence and degradability

There is no data available for the product.

The biodegradability of the component is given in sec. 12.1

12.3 Bioaccumulative potential

There is no data available for the product.

The value of the partition coefficient of the component is given in sec. 12.1

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This product does not contain any substances which are classified as PBT or vPvB in a concentration of 0.1% by weight or higher.

12.6 Endocrine disrupting properties

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Catalogue No. of substance/mixture waste:

07 06 99 Wastes not otherwise specified

Waste codes / waste designations according to LoW:

15 01 10 Packaging containing residues of or contaminated by dangerous substances

Recommended procedure for substance/mixture waste disposal:

No data available.

Recommended procedure for packaging disposal:

Empty containers must be disposed of in accordance with the applicable waste legislation. After perfect cleaning, the packaging can be used as a secondary raw material for the same purpose. Recommended way of disposing of recycling, burning in a hazardous waste incinerator or storing hazardous waste.

Physical / chemical properties that may affect waste treatment method:

No data available.

Sewage disposal-relevant information:

Protect against weathering. Prevent leakage of waste into the water / soil / sewage system. In case of leakage, inform the competent authorities.

Other disposal recommendations:

Dispose of in accordance with applicable legislation.

SECTION 14: Transport information

	Type of transport	Land transport ADR / RID	Sea transport IMDG	Air Transport ICAO / IATA
14.1	UN number or ID number	There is no dangerous good in terms of transport.	There is no dangerous good in terms of transport.	There is no dangerous good in terms of transport.
14.2	UN proper shipping name			
14.3	Transport hazard class(es)			
	Classification code	-	-	-
	Labels			

14.4	Packing group	

14.5 Environmental hazards

No data available.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not specified.

Other information

Type of transport	Land transport ADR / RID	Sea transport IMDG	Air Transport ICAO / IATA
Limited quantities:			
Excepted quantities:			
Transport category:		-	-
Tunnel restriction code:		-	-
Segregation group:	-		-

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

all as amended and including implementing regulations

Regulation (EC) No. 1272/2008 (CLP) on classification, labelling and packaging of substances and mixtures,...

Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),...

Applicable national regulations.

The product contains substance Distillates (petroleum), hydrotreated heavy naphthenic, Distillates (petroleum), hydrotreated heavy paraffinic, that is included in Annex XVII. of REACH Regulation.

15.2 Chemical safety assessment

Chemical safety assessment has been made for Lithium 12-hydroxystearate

SECTION 16: Other information

Complete text of all classifications and hazard classes referred to in SECTION 3

Hazard class: Carc. 1B - Carcinogenicity, category 1B

H-phrases: H350 It may cause cancer.

Abbreviations:

- ADN Inland waterways
- ADR Accord Dangereuses Route
- CAS Chemical Abstracts Service
- DNEL Derived no-effect level
- EINECS European Inventory of Existing Commercial Chemical Substances
- EL50 Effect level for 50%
- IATA International Air Transport Association
- ICAO International Civil Aviation Organization

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IMDG	International Maritime Dangerous Goods
LD50	Lethal dose for 50%
LL50	Lethal load for 50%
NOAEC	No observable adverse effect concentration
NOAEL	No observable adverse effect level
NOEC	No observable effect concentration
NOEL	No observable effect level
NPK-P	Maximum permissible concentration
OEL	Occupational Exposure Limit (workplace exposure limit - 8 hours / shift)
PBT	Persistent, bioaccumulative and toxic
PEL	Permissible exposure limits
PNEC	Predicted no-effect concentration
RID	Regulations for the International Carriage of Dangerous Goods by Rail
STEL	Short Term Exposure Limit (short exposure - corresponds to approx. 15 min.)
VOC	Volatile organic substances
vPvB	Very persistent and very bioaccumulative
WGK	Hazard classes for water (Wassergefährdungsklassen)

Changes to previous version SDS:

New SDS based on Commission Regulation (EU) 2020/878. The classification has been performed by calculation method.

Instructions for training

Workers who come into contact with dangerous substances must be aware of the effects of these substances, how they are treated, and protective measures to the extent necessary.

Furthermore, they must be familiar with the first aid principles, with the necessary sanitation procedures and with the procedures for disaster and accident elimination.

The person handling this chemical product must be familiar with the safety rules and the data given in the safety data sheet.

If a hazardous chemical / mixture is classified as corrosive or toxic, workers should be made aware of the Corrosive / Toxic Chemicals / Mixing Rules.

Persons carrying dangerous substances must be familiar with the ADR / RID accident instructions.

Other information

The above information describes the conditions for safe handling of the product and corresponds to the current knowledge of the manufacturer and serves as instruction for the training of the persons handling the product.

The manufacturer carries guarantee the above-described properties of the product at the recommended use.

The user is responsible for determining the suitability of the product for specific purposes and adapting security measures if such application is contrary to the manufacturer's recommendations.