

Safety Data Sheet

LGNL 3

Replaces date: 17/02/2025

Revision date: 05/08/2025

Version: 1.2.0

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

1.1. Product identifier

Trade name: LGNL 3

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

Recommended uses: Lubricant.

Inadvisable uses: None.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: SKF UK Ltd
 Address: 400 Capability Green
 Zip code: LU1 3LU
 City: Luton
 Country: UNITED KINGDOM
 Email: technical.helpdesk.uk@skf.com
 Phone: +44 1582 490049
 Homepage: www.skf.com

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: The product shall not be classified as hazardous according to the classification and labeling rules for substances and mixtures.

Most serious harmful effects: May cause slight irritation to the skin and eyes. Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.

2.2. Label elements

Supplemental information

EUH210 Safety data sheet available on request.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.
 Endocrine disrupting properties: None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ UK-REACH Reg. No.	Concentration	Notes	CLP-classification

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Molybdenum thiocarbamate	68412-26-0 270-180-5	1.00 -< 5.00 %		Aquatic Chronic 4;H413 LD50 (Acute toxicity - oral): 2585 mg/kg bw
2,6-Ditertiary-butylparacresol	128-37-0 204-881-4	0.10 -< 0.25 %		Aquatic Acute 1;H400 Aquatic Chronic 1;H410 LD50 (Acute toxicity - oral): > 2930 mg/kg bw LD50 (Acute toxicity - dermal): > 5000 mg/kg bw M (acute): 1 M (chronic): 1

Please see section 16 for the full text of H- / EUH-phrases.

Ingredient comments: The mineral oils in the product contain <3% DMSO extract(IP 346).

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation:** Seek fresh air. Seek medical advice in case of persistent discomfort.
- Ingestion:** Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.
- Skin contact:** Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
- Eye contact:** Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
- General:** When obtaining medical advice, show the safety data sheet or label.

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

May cause slight irritation to the skin and eyes. Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.

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

Treat symptoms. No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media:** Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.
- Unsuitable extinguishing media:** Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Not flammable, but combustible. Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

5.3. Advice for firefighters

If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Keep unnecessary personnel away. Stay upwind/keep distance from source. Wear safety goggles if there is a risk of eye splash.

For emergency responders: In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely out of reach of children and not together with food, feed, medicine and the like. Keep in tightly closed original packaging. Do not store with the following: Strong oxidisers/ Strong acids/ Strong alkalis.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m ³	Fiber/cm ³	Remarks	Comments
Molybdenum thiocarbamate	8h		10		As Mo. OEL value for:	
Molybdenum thiocarbamate	15m		20		As Mo. OEL value for:	
2,6-Ditertiary-butylpara-cresol	8h		10			

Measuring methods: Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: EH40/2005 Workplace exposure limits. Last amended January 2020. Control of Lead at Work Regulations 2002. Control of Asbestos Regulations 2012.

8.2. Exposure controls

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Appropriate engineering controls: Use the product under well-ventilated conditions. Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 16321.

Personal protective equipment, hand protection: Plastic or rubber gloves recommended.

Personal protective equipment, respiratory protection: Not required.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Paste
Colour	Yellow
Odour	Characteristic
Solubility	Not miscible with the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Boiling point or initial boiling point and boiling range	No data	
Flammability	No data	
Flammability limits	No data	
Lower and upper explosion limit	No data	
Flash Point	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water (log value)	No data	
Vapour pressure	No data	
Density	0.95 g/cm ³	(15 °C)
relative density	No data	
Relative vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks
Dropping point	> 180 °C	(IP 396)
NLGI	3	

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Strong oxidisers/ Strong acids/ Strong alkalis.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidisers/ Strong acids/ Strong alkalis.

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

Molybdenum thiocarbamate, cas-no 68412-26-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		2585 mg/kg bw			

2,6-Ditertiary-butylpara-cresol, cas-no 128-37-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2930 mg/kg bw		OECD 401	

Ingestion may cause discomfort. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

2,6-Ditertiary-butylpara-cresol, cas-no 128-37-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000 mg/kg bw		OECD 402	

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation: The product does not have to be classified. Test data are not available.

Skin corrosion/irritation: May cause slight irritation. The product does not have to be classified. Test data are not available.

Serious eye damage/eye irritation: Temporary irritation. The product does not have to be classified. Test data are not available.

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Respiratory sensitisation or skin sensitisation

2,6-Ditertiary-butylpara-cresol, cas-no 128-37-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Guinea pig				Non-sensitising	OECD 406	

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Germ cell mutagenicity: The product does not have to be classified. Test data are not available.

Carcinogenic properties: The product does not have to be classified. Test data are not available.

Reproductive toxicity: The product does not have to be classified. Test data are not available.

Single STOT exposure: The product does not have to be classified. Test data are not available.

Repeated STOT exposure: The product does not have to be classified. Test data are not available. Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.

Aspiration hazard: The product does not have to be classified. Test data are not available.

11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

Molybdenum thiocarbamate, cas-no 68412-26-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Crustacea			48hEC50	100 mg/l			
Algae			72hEC50	100 mg/l			

2,6-Ditertiary-butylpara-cresol, cas-no 128-37-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Crustacea			48hEC50	0.61 mg/l		OECD 202	
Crustacea			21dNOEC	> 0.39 mg/l			

The product contains small quantities of environmentally hazardous substances. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

Molybdenum thiocarbamate, cas-no 68412-26-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d		0 %	Not readily biodegradable.	OECD 301 B	

2,6-Ditertiary-butylpara-cresol, cas-no 128-37-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
				30 %	Not readily biodegradable.	OECD 302 C	

Not expected to be biodegradable.

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12.3. Bioaccumulative potential

The product contains at least one substance that is bioaccumulative in organisms.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

German water pollution classification (WGK): 1

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water. If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste (Dir. 2008/98/EU). Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements. Empty, cleansed packaging should be disposed of for recycling. Uncleansed packaging is to be disposed of via the local waste-removal scheme.

Category of waste: EWC code: Depends on line of business and use, for instance 12 01 12* spent waxes and fats

Absorbent/cloth contaminated with the product: EWC code: 15 02 03 absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

SECTION 14: Transport information

14.1. UN number or ID number: Not applicable.

14.4. Packing group: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.5. Environmental hazards: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Other Information: The product is not covered by the rules for transport of dangerous goods.

SECTION 15: Regulatory information

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

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Special Provisions: None.

15.2. Chemical Safety Assessment

UK-REACH Reg. No.	Substance name
	Molybdenum thiocarbamate
	2,6-Ditertiary-butylpara-cresol

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.2.0	05/08/2025	SRU	1,8,16

Abbreviations:
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: Very Persistent and Very Bioaccumulative
 STOT: Specific Target Organ Toxicity

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with Regulation 1907/2006/EC "The Registration, Evaluation and Authorization of Chemicals" as amended by the stationary UK REACH etc. (EU Exit) as subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

Hazard statements

H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.

Supplemental hazard information

EUH210 Safety data sheet available on request.

Country: GB