

Safety Data Sheet

LFFM 100

Replaces date: 04/08/2025

Revision date: 07/11/2025

Version: 1.5.0

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

1.1. Product identifier

Trade name: LFFM 100

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.

2.2. Label elements

Supplemental information

EUH208 Contains 8-Oxa-3,5-dithia-4- phosphatetradeca noic acid, 10-ethyl-4-[[2-[(2-e thylhexyl)oxy]-2-ox oethyl]thio]-7-oxo-, 2-ethylhexyl ester, 4-oxide. May produce an allergic reaction.
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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Amines, C12-14-alkyl, C6-10-alkyl phosphates	68603-55-4 271-663-3	< 1 %		Skin Irrit. 2;H315 Aquatic Acute 1;H400 Aquatic Chronic 3;H412 LD50 (Acute toxicity - oral): > 2000 mg/kg bw LD50 (Acute toxicity - dermal): > 2000 mg/kg bw
8-Oxa-3,5-dithia-4-phosphatetradeca noic acid, 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-, 2-ethylhexyl ester, 4-oxide	83547-95-9 280-479-2	< 1 %		Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411 LD50 (Acute toxicity - dermal): > 3000 mg/kg bw

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. The product contains small amounts of 8-Oxa-3,5-dithia-4- phosphatetradeca noic acid, 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-, 2-ethylhexyl ester, 4-oxide. Persons with a known allergy may exhibit an allergic response to the product.

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:	The product is not directly flammable. Choose extinguishing agents based on the surrounding fire.
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

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

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. Stop leak if this can be done without risk. 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. A risk assessment must ensure that the employees are not exposed to effects from chemicals. The risk assessment must result in measures preventing exposure.

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. Store in a dry area. Store at temperatures below 45°C. Do not store with the following: Strong oxidisers.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements.

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

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

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

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Personal protective equipment, hand protection: Use disposable gloves of nitrile rubber. Breakthrough time has not been determined for the product. Change gloves often. Gloves must conform to EN 374.
The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier.

Personal protective equipment, respiratory protection: Not required.
In case of risk of formation of spray mist, wear respiratory protective equipment with P2 filter. Respiratory protection must conform to one of the following standards: EN 136/140/145.

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
Physical state	Liquid
Colour	Colourless
Odour	No data
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	> 150 °C	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	100 mm ² /s	(40 °C)
Viscosity	No data	
Partition coefficient n-octanol/water (log value)	No data	
Vapour pressure	No data	
Density	< 1000 kg/m ³	(25 °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
Explosive properties		Non-explosive

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Strong oxidisers.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No known information.

10.4. Conditions to avoid

Avoid temperatures >45°C.

10.5. Incompatible materials

Strong oxidisers.

10.6. Hazardous decomposition products

None, if stored at the recommended storage conditions.

SECTION 11: Toxicological information

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

Acute toxicity - oral

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	ATE (mix)		5063.30 mg/kg			

Amines, C12-14-alkyl, C6-10-alkyl phosphates, cas-no 68603-55-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000 mg/kg bw			

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

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	ATE (mix)		5135.40 mg/kg			

Amines, C12-14-alkyl, C6-10-alkyl phosphates, cas-no 68603-55-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000 mg/kg bw			

8-Oxa-3,5-dithia-4- phosphatetradeca noic acid, 10-ethyl-4-[[2-[(2-e thylhexyl)oxy]-2-ox oethyl]thio]-7-oxo-, 2-ethylhexyl ester, 4-oxide, cas-no 83547-95-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 3000 mg/kg bw			

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.

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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.
Respiratory sensitisation or skin sensitisation:	The product contains small amounts of 8-Oxa-3,5-dithia-4- phosphatetradeca noic acid, 10-ethyl-4-[[2-[(2-e thylhexyl)oxy]-2-ox oethyl]thio]-7-oxo-, 2-ethylhexyl ester, 4-oxide. Persons with a known allergy may exhibit an allergic response to the product. The product does not have to be classified. Test data are not available.
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.
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

The product contains small quantities of environmentally hazardous substances. The product does not have to be classified. Test data are not available.

12.2. Persistence and degradability

Not expected to be biodegradable. Test data are not available.

12.3. Bioaccumulative potential

Amines, C12-14-alkyl, C6-10-alkyl phosphates, cas-no 68603-55-4

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Partition coefficient (Koc)	2.47			

No bioaccumulation expected.

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.

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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 07 06 99 wastes not otherwise specified

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

Special Provisions: None.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.5.0	07/11/2025	SRU	2,3,4,7,8,9,10,11,12,13,16

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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

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information

EUH208	Contains 8-Oxa-3,5-dithia-4- phosphatetradeca noic acid, 10-ethyl-4-[[2-[(2-e thylhexyl)oxy]-2-ox oethyl]thio]-7-oxo-, 2-ethylhexyl ester, 4-oxide. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Country:

GB