Safety Data Sheet

LGFQ 2

Replaces date: 07/07/2023

Revision date: 05/10/2023
Version: 2.5.0

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

1.1. Product identifier

Trade name: LGFQ 2

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

Recommended uses: Lubricant.

1.3. Details of the supplier of the safety data sheet

Supplier

Company:	SKF MPT
Address:	Meidoornkade 14
Zip code:	3992 AE
City:	AE Houten
Country:	NETHERLANDS (KINGDOM OF THE)
E-mail:	support.mpt@skf.com
Phone:	+31 30 6307200
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: Eye Irrit. 2;H319

Most serious harmful effects: Causes serious eye irritation.

2.2. Label elements

Pictograms

Signal word: Warning

Contains

Substance: Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts;

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear eye protection.

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./ REACH Reg. No.	Concentration	Notes	CLP-classification
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	1335202-81-7 932-231-6 01-2119560592-37	< 3 %		Skin Irrit. 2;H315 Eye Dam. 1;H318 Aquatic Chronic 3;H412 LD50 (Acute toxicity - oral): 4445 mg/kg bw LD50 (Acute toxicity - dermal): > 2000 mg/kg bw
Alkyl Naphthalene sulfonic acid, calcium salt		≤ 3 %		Eye Irrit. 2;H319 LD50 (Acute toxicity - oral): > 2000 mg/kg bw
Dec-1-ene, homopolymer, hydrogenated	68037-01-4 500-183-1 01-2119486452-34	≤ 3 %		Asp. Tox. 1;H304 LD50 (Acute toxicity - oral): > 5000 mg/kg bw LC50 (dust/mist) (Acute toxicity - inhalation): > 5.3 mg/l LD50 (Acute toxicity - dermal): > 2000 mg/kg bw
Calcium hydroxide	1305-62-0 215-137-3 01-2119475151-45	< 1 %		Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE 3;H335 LD50 (Acute toxicity - oral): 7340 mg/kg bw LD50 (Acute toxicity - dermal): > 2500 mg/kg bw LC50 (vapour) (Acute toxicity - inhalation): 20.1 mg/l LC50 (dust/mist) (Acute toxicity - inhalation): 5.1 mg/l
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1 270-128-1 01-2119491299-23	≤ 1 %		Repr. 2;H361f LD50 (Acute toxicity - oral): > 5000 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 immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.

General: When obtaining medical advice, show the safety data sheet or label.

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

Irritating to eyes. Causes a burning sensation and tearing. The product contains at least one substance which is a suspected reproductive hazard.

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. The product decomposes when combusted and the following toxic gases can be formed: Carbon monoxide and carbon dioxide/ Sulphur oxides/ Nitrous gases.

5.3. Advice for firefighters

Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stay upwind/keep distance from source. Wear safety goggles. Wear gloves. Provide good ventilation.

For emergency responders: In addition to the above: Protective suit equivalent to EN 368, type 3, 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 must 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

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging. Store in a dry area. Avoid direct sunlight.

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/m³	fiber/cm3	Remarks	Comments
Calcium hydroxide	8h		1		Respirable fraction.	
Calcium hydroxide	15m		4		Respirable fraction.	
Calcium hydroxide	8h		5			

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.

PNEC

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no 1335202-81-7				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	23 µg/l			
PNEC aqua (marine water)	2,3 µg/l			
PNEC STP (wastewater-treatment facilities)	3 mg/l			
PNEC sediment (freshwater)	174 µg/kg dw			
PNEC sediment (marine water)	17,4 µg/kg dw			
PNEC soil	620 µg/kg dw			
Calcium hydroxide, cas-no 1305-62-0				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,49 mg/l			
PNEC aqua (marine water)	0,32 mg/l			
PNEC soil	1080 mg/kg			
PNEC STP (wastewater-treatment facilities)	3 mg/l			
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, cas-no 68411-46-1				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (marine water)	3,38 µg/l			
PNEC sediment (freshwater)	446 µg/kg dw			

PNEC sediment (marine water)	44,6 µg/kg dw			
PNEC soil	1,76 mg/kg			
PNEC aqua (freshwater)	33,8 µg/l			

DNEL - workers

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no 1335202-81-7

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	1,7 mg/kg bw/day				

Calcium hydroxide, cas-no 1305-62-0

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	1 mg/m³				
Inhalation DNEL (acute/short-term exposure - local effects)	4 mg/m³				
Inhalation DNEL (acute/short-term exposure - systemic effects)	4 mg/m³				
Inhalation DNEL (long-term exposure - local effects)	1 mg/m³				

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, cas-no 68411-46-1

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	0,08 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	0,6 mg/m³				

DNEL - general population

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no 1335202-81-7

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	85 mg/kg bw/day				
Oral DNEL (acute/short-term exposure - systemic effects)	89 mg/kg bw/day				

Calcium hydroxide, cas-no 1305-62-0

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note

Inhalation DNEL (long-term exposure - local effects)	1 mg/m³				
Inhalation DNEL (acute/short-term exposure - local effects)	4 mg/m³				

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, cas-no 68411-46-1

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Oral DNEL (long-term exposure - systemic effects)	0,04 mg/kg bw/day				
Dermal DNEL (long-term exposure - systemic effects)	0,04 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	0,14 mg/m³				

8.2. Exposure controls

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. Eye protection must conform to EN 166.

Personal protective equipment, hand protection: In the event of direct skin contact, wear protective gloves: Type of material: 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: Light use (small volume, shortterm contact (below 10 min.)): Not required.
Medium use (medium volume, medium contact (1-2 hours)): Wear respiratory protective equipment. Filter type: A P.
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
State	Paste
Colour	Brown Yellow
Odour	Characteristic
Solubility	Insoluble in the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	> 300 °C	(DIN ISO 3016)
Freezing point	No data	
Initial boiling point and boiling range	No data	

Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Flash Point	No data	
Auto-ignition temperature	No data	
Decomposition temperature	> 300 °C	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octonol/water	> 3.5	
Vapour pressure	No data	
Density	0.9 g/cm³	(20 °C)
Relative density	0.9	
Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks
Oxidising properties		Non-oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity

No known data.

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

Avoid direct sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed:
Carbon monoxide and carbon dioxide/ Sulphur oxides/ Nitrous gases.

SECTION 11: Toxicological information

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

Acute toxicity - oral

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no 1335202-81-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		4445 mg/kg bw			

Alkyl Naphthalene sulfonic acid, calcium salt

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

Dec-1-ene, homopolymer, hydrogenated, cas-no 68037-01-4

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

Calcium hydroxide, cas-no 1305-62-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		7340 mg/kg bw			

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, cas-no 68411-46-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000 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

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no 1335202-81-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000 mg/kg bw		OECD 402	

Dec-1-ene, homopolymer, hydrogenated, cas-no 68037-01-4

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

Calcium hydroxide, cas-no 1305-62-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 2500 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

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	ATE (mix)		19.10 mg/l			

Dec-1-ene, homopolymer, hydrogenated, cas-no 68037-01-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (dust/mist)	4 h	> 5.3 mg/l			

Calcium hydroxide, cas-no 1305-62-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (vapour)	4 h	20.1 mg/l			
Rat	LC50 (dust/mist)	4 h	5.1 mg/l			

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

Skin corrosion/irritation

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no 1335202-81-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit		4 h	2.7		OECD 404	

May irritate the skin - may cause reddening. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Serious eye damage/eye irritation

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no 1335202-81-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit			1		OECD 405	

Irritating to eyes. Causes a burning sensation and tearing.

Respiratory sensitisation or skin sensitisation

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no 1335202-81-7

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

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. The product contains at least one substance which is a suspected reproductive hazard.

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

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no 1335202-81-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Pseudokirchneriella subcapitata		96hEC50	29 mg/l		STDMETH, ASTM, USEPA	
Algae	Pseudokirchneriella subcapitata		96hNOEC	0.5 mg/l		STDMETH, ASTM, USEPA	
Crustacea	Daphnia magna		48hEC50	2.9 mg/l		OECD 202	
Fish	Lepomis macrochirus		96hLC50	1.67 mg/l		STDMETH, ASTM, USEPA	
Crustacea	Daphnia magna		48hNOEC	0.379 mg/l		OECD 211	

Dec-1-ene, homopolymer, hydrogenated, cas-no 68037-01-4

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Scenedesmus capricornutum		72hNOEL	1000 mg/l		OECD 201	
Algae	Scenedesmus capricornutum		72hEC50	> 1000 mg/l		OECD 201	
Crustacea	Daphnia magna		21dNOEL	125 mg/l		OECD 211	
Fish			96hLC50	751 mg/l			
Crustacea	Daphnia magna		48hEC50	191 mg/l			

Calcium hydroxide, cas-no 1305-62-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Pseudokirchneriella subcapitata		72hEC50	184.57 mg/l		OECD 201	
Crustacea			48hEC50	158 mg/l			
Fish	Gambusia affinis		96hLC50	160 ppm			
Algae	Pseudokirchneriella subcapitata		72hNOEC	48 mg/l		OECD 201	
Crustacea	Crangon septemspinosa		14dLC50	53.1 mg/l			
Crustacea	Crangon septemspinosa		14dNOEC	32 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

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no 1335202-81-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
	Activated sludge	28 d		> 90 %	Readily biodegradable.	OECD 301 B	

Alkyl Naphthalene sulfonic acid, calcium salt

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
					Readily biodegradable.		

Dec-1-ene, homopolymer, hydrogenated, cas-no 68037-01-4

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
					Not readily biodegradable.		

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, cas-no 68411-46-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
					Not readily biodegradable.		

The product contains at least one readily biodegradable substance.

12.3. Bioaccumulative potential

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Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Kow	> 3.5			

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no 1335202-81-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Kow	2.9			

Alkyl Naphthalene sulfonic acid, calcium salt

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Kow	6.6			

Dec-1-ene, homopolymer, hydrogenated, cas-no 68037-01-4

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	> 6.5			

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, cas-no 68411-46-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Kow	5.1			
			BCF	1730			

The product is potentially bioaccumulative.

12.4. Mobility in soil

Not expected to be mobile 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

Oil products may cause soil and water pollution.

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

Special Provisions: None.

15.2. Chemical Safety Assessment

REACH Reg. No.	Substance name
01-2119475151-45	Calcium hydroxide
01-2119486452-34	Dec-1-ene, homopolymer, hydrogenated
01-2119491299-23	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
01-2119560592-37	Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
2.5.0	05/10/2023	Bureau Veritas HSE/ SRU	2,16

Abbreviations:
PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration

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

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.

Country: GB