

SKF Extremely high viscosity bearing grease with solid lubricants

LGEV 2

SKF LGEV 2 is a mineral oil based grease, using a lithium-calcium soap. Its high content of molybdenum disulphide and graphite, in conjunction with an extremely high viscosity oil, provide outstanding protection under the harshest conditions involving high loads, slow rotations and severe vibrations.

- Extremely suitable for lubricating large sized spherical roller bearings subject to high loads and slow rotations, a situation where microslip is likely to occur
- Extremely mechanically stable providing good water resistance and corrosion protection

Typical applications

- Trunnion bearings on rotating drums
- Support and thrust rollers on rotary kilns and dryers
- Bucket wheel excavators
- Slewing ring bearings
- High pressure roller mills
- Crushers



Available pack sizes

Packsize	Designation
35 g tube	LGEV 2/0.035
420 ml cartridge	LGEV 2/0.4
5 kg can	LGEV 2/5
18 kg pail	LGEV 2/18
50 kg drum	LGEV 2/50
180 kg drum	LGEV 2/180
Electro-mechanical lubricant dispensers	
TLMR 101 series 380 ml refill (incl. battery)	LGEV2/MR380B
TLMR 201 series 380 ml refill	LGEV 2/MR380



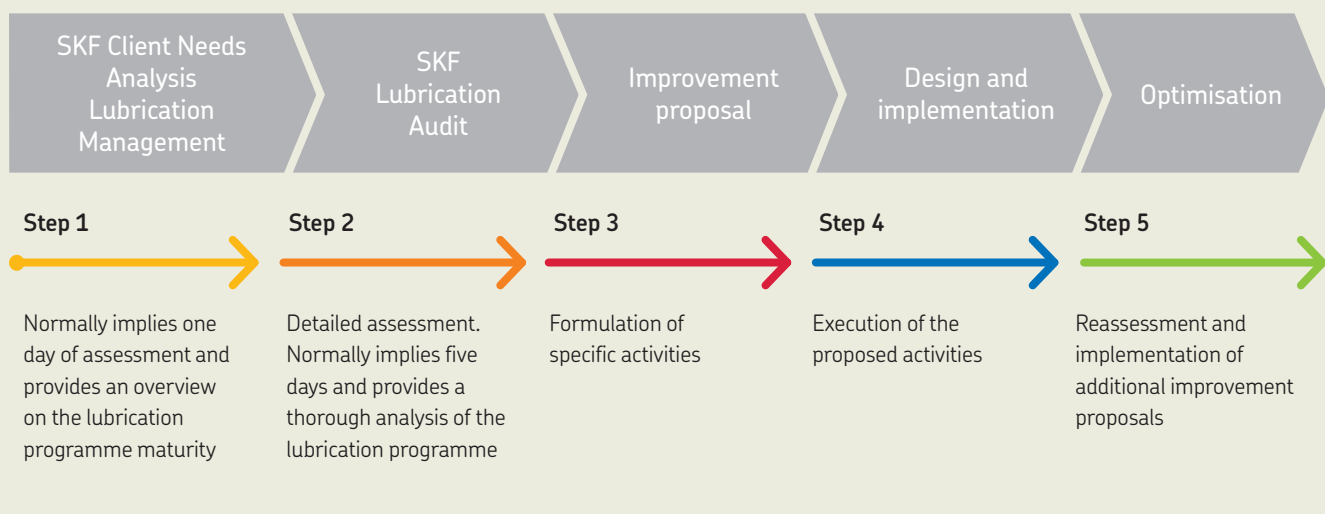
Technical data

Designation	LGEV 2/(pack size)		
DIN 51825 code	KPF2K-10	Mechanical stability	
NLGI consistency class	2	Roll stability, 72 hrs at 100 °C, 10 ⁻¹ mm	+50 max.
Thickener	Lithium/calcium	V2F test	'M'
Colour	Black	Corrosion protection	
Base oil type	Mineral	Emcor: – standard ISO 11007	0–0
Operating temperature range	–10 to +120 °C (15 to 250 °F)	– water washout test	0–0 ¹⁾
Dropping point DIN ISO 2176	>180 °C (>355 °F)	– salt water test (100% seawater)	0–0 ¹⁾
Base oil viscosity		Water resistance	
40 °C, mm ² /s	1 020	DIN 51 807/1,	
100 °C, mm ² /s	58	3 hrs at 90 °C	1 max.
Penetration DIN ISO 2137		Oil separation	
60 strokes, 10 ⁻¹ mm	265–295	DIN 51 817,	
100 000 strokes, 10 ⁻¹ mm	325 max.	7 days at 40 °C, static, %	1–5
		Copper corrosion	
		DIN 51 811	1 max. at 100 °C (210 °F)
		EP performance	
		Wear scar DIN 51350/5, 1 400 N, mm	1,2 max.
		4-ball test, welding load DIN 51350/4	3 000 min.

¹⁾ Typical value

Lubrication management

Just as asset management takes maintenance to a higher level, a lubrication management approach allows lubrication to be seen from a wider point of view. This approach helps to effectively increase machine reliability at a lower overall cost.



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Safety Data Sheet

LGEV 2

Replaces date: 30/04/2019

Revision date: 03/03/2020

Version: 3.3.0

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

1.1. Product identifier

Trade name: LGEV 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 MAINTENANCE PRODUCTS
Address: P.O. Box 2350
Zip code: 3430 DT
City: Nieuwegein
Country: NETHERLANDS
E-mail: sebastien.david@skf.com
Phone: +31 306307200
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 substance and mixtures.

Most serious harmful effects: May cause slight irritation to the skin and eyes.

2.2. Label elements

Supplemental information

EUH210 Safety data sheet available on request.
EUH208 Contains Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Polysulfides, di-tert-dodecyl	68425-15-0	270-335-7	01-2119540516-41	1 - 2.5%		Aquatic Chronic 4;H413

Safety Data Sheet

LGEV 2

Replaces date: 30/04/2019

Revision date: 03/03/2020

Version: 3.3.0

Sulfonic acids, petroleum, calcium salts	61789-86-4	263-093-9	01-2119488992- 18	1 - 2.5%		Skin Sens. 1B;H317
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Please see section 16 for the full text of H-phrases.

Ingredient comments: CAS 61789-86-4: >10% -> Skin Sens. 1;H317

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 Sulfonic acids, petroleum, calcium salts. 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: Fire-fighting 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.

5.3. Advice for fire-fighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Wear gloves. 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.

Safety Data Sheet

LGEV 2

Replaces date: 30/04/2019

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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

Use the product under well-ventilated conditions. 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 away from food, animal feeding stuffs, medicines, etc. Keep in tightly closed original packaging. Do not store with the following: Strong acids/ Oxidisers. Storage temperature: ~20 °C. Do not expose to heat (e.g. sunlight).

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.

8.2. Exposure controls

Appropriate engineering controls: 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 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.

Personal protective equipment, respiratory protection: Not required.

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

Safety Data Sheet

LGEV 2

Replaces date: 30/04/2019

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Paste Fat.
Colour	Grey
Odour	Characteristic
Solubility	Insoluble in the following: Water.
Explosive properties	No data
Oxidising properties	No data

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	
Flash Point	No data	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	No data	
Odour threshold	No data	

9.2 Other information

Parameter	Value/unit	Remarks
Density	0,94 g/cm ³	(20 °C)
Dropping point	~ 180 °C	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Strong acids/ Oxidisers.

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 heating and contact with ignition sources.

Safety Data Sheet

LGEV 2

Replaces date: 30/04/2019

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10.5. Incompatible materials

Strong acids/ Oxidisers.

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral:	The product does not have to be classified. Test data are not available. Ingestion of large quantities may cause discomfort.
Acute toxicity - dermal:	The product does not have to be classified. Test data are not available.
Acute toxicity - inhalation:	The product does not have to be classified. Test data are not available.
Skin corrosion/irritation:	The product does not have to be classified. Test data are not available.
Serious eye damage/eye irritation:	The product does not have to be classified. Test data are not available. Temporary irritation.
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available. The product contains small amounts of Sulfonic acids, petroleum, calcium salts. Persons with a known allergy may exhibit an allergic response to the product. According to tests, the product need not be classified.
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.
Other toxicological effects:	None known.

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

Test data are not available.

12.3. Bioaccumulative potential

Safety Data Sheet

LGEV 2

Replaces date: 30/04/2019

Revision date: 03/03/2020

Version: 3.3.0

Test data are not available.

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. 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. Uncleansed packaging is to be disposed of via the local waste-removal scheme. Empty, cleansed packaging should be disposed of for recycling.

Category of waste:

EWC code: Depends on line of business and use, for instance 16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

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-No.:

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. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

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.

Safety Data Sheet

LGEV 2

Replaces date: 30/04/2019

Revision date: 03/03/2020

Version: 3.3.0

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
3.3.0	03/03/2020	Bureau Veritas HSE/ SRU	3, 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 1907/2006/EC (REACH) 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.

List of relevant H-statements

H317 May cause an allergic skin reaction.
H413 May cause long lasting harmful effects to aquatic life.

Document language:

GB