

SKF Extreme temperature, extreme condition bearing grease

LGET 2

SKF LGET 2 is a synthetic fluorinated oil based grease, using a PTFE thickener. It is especially suitable for applications at extremely high temperatures from 200 °C (390 °F) up to 260 °C (500 °F).

- Long life in aggressive environments such as very reactive areas with a presence of high purity gaseous oxygen and hexane
- Excellent oxidation resistance
- Good corrosion resistance
- Excellent water and steam resistance

Typical applications

- Bakery equipment (ovens)
- Kiln truck wheels
- Load rollers in copying machines
- Wafer baking machines
- Textile dryers
- Film stretching tenders
- Electric motors running at extreme temperatures
- Emergency / hot fans
- Vacuum pumps



Important note:

LGET 2 is a fluorinated grease and is not compatible with other greases, oils and preservatives (except LGED 2). Therefore, very thorough cleaning of bearings and systems is essential before applying fresh grease.

Available pack sizes

Packsizes	Designation
50 g syringe	LGET 2/0.050
1 kg can	LGET 2/1



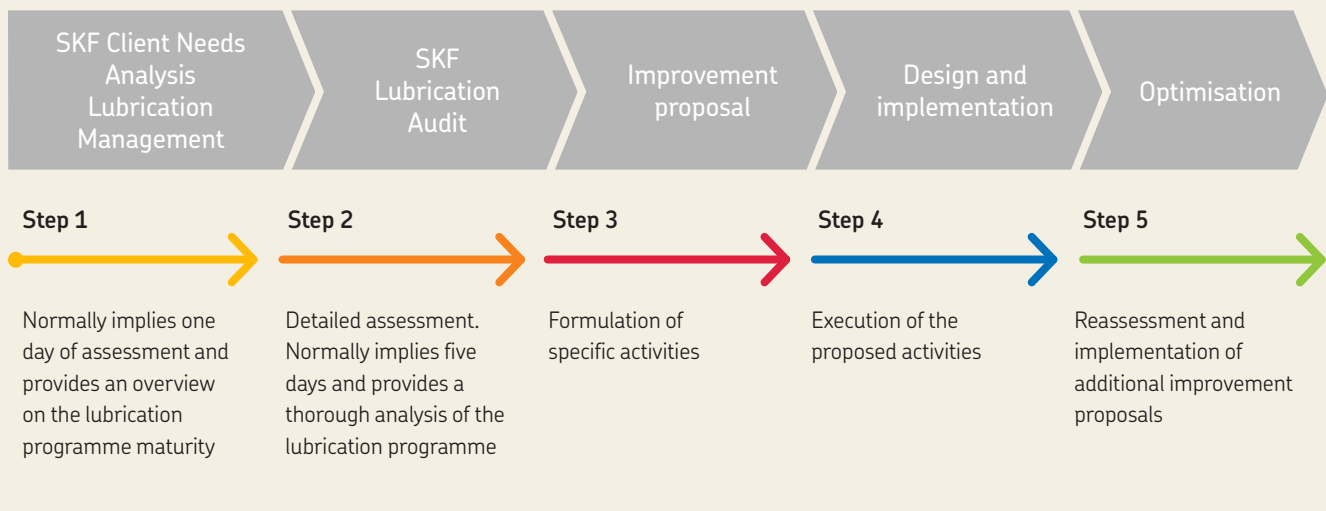
Technical data

Designation	LGET 2/(pack size)		
DIN 51825 code	KFK2U-40	Corrosion protection	
NLGI consistency class	2	Emcor:	
Thickener	PTFE	- standard ISO 11007	1-1 max.
Colour	Off white	Water resistance	
Base oil type	Synthetic (fluorinated polyether)	DIN 51 807/1, 3 hrs at 90 °C	0 max.
Operating temperature range	-40 to +260 °C (-40 to +500 °F)	Oil separation	
Dropping point DIN ISO 2176	>300 °C (>570 °F)	DIN 51 817, 7 days at 40 °C, static, %	13 max. 30 hrs at 200 °C (390 °F)
Base oil viscosity		Copper corrosion	
40 °C, mm ² /s	400	DIN 51 811	1 max. at 150 °C (300 °F)
100 °C, mm ² /s	38	Rolling bearing grease life	
Penetration DIN ISO 2137		ROF test	>1 000 ¹⁾ at 220 °C (428 °F)
60 strokes, 10 ⁻¹ mm	265-295	L ₅₀ life at 10 000 r/min., hrs	
Mechanical stability		EP performance	
Roll stability,		4-ball test,	
50 hrs at 80 °C, 10 ⁻¹ mm	±30 max. 130 °C (265 °F)	welding load DIN 51350/4, N	8 000 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

LGET 2

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

1.1. Product identifier

Trade name: LGET 2

Other Information: For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
1 703-527-3887 (collect calls accepted)

Location:
CHEMTREC
2900 Fairview Park Drive
Falls Church VA 22042-4513
USA

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
E-mail: sebastien.david@skf.com
Phone: +31 30 6307200
Homepage: www.skf.com

1.4. Emergency Telephone Number

+31 30 6307200

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

HazCom 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

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

2.3. Other hazards

None known.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	Concentration	Notes
1H-Benzotriazole (1,2,3)	95-14-7	1 -< 2.5%	

Ingredient comments:

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

The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

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:

Bring the safety data sheet or label when seeking medical advice.

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

May cause slight irritation to the skin and eyes.

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 a jet of water, 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/ Hydrogen fluoride.

5.3. Advice for fire-fighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapor and smoke 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

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For non-emergency personnel: Stop leak if this can be done without risk. Wear safety goggles if there is a risk of eye splash. Wear gloves.

For emergency responders: In addition to the above: Normal protective clothing 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 spills using 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. Avoid contact with moisture and water. Do not store with the following: Alkaline metals/ Acids.

7.3. Specific end use(s)

No special uses in addition to identified uses in 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m ³	fiber/cm ³	Comments	Remarks
Mineral oil, excluding metal working fluids	ACGIH TWA		5		Pure, highly and severely refined. OEL value for: Mineral oil, excluding metal working fluids	A4, I
Mineral oil, excluding metal working fluids	OSHA		5		OEL value for: Mineral oil, excluding metal working fluids	

A4 = Not Classifiable as a Human Carcinogen.

I = Inhalable fraktion.

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

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Legal basis: ACGIH Threshold Limit Values (TLV's) and Biological Exposure Indices (BEI's), 2020.
OSHA 29 CFR part 1910.1000, table Z1-Z3, Limits for Air Contaminants 2006.

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.

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	White
Odour	No data
Solubility	No data
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	> 300 °C	>572°F
Flash Point	No data	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Vapour pressure	< 0.01 hPa	122 °F
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	> 290 °C	>554°F
Viscosity	No data	
Odour threshold	No data	

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9.2 Other information

Parameter	Value/unit	Remarks
Density	1,97 g/cm ³	(68 °F)
VOC (Volatile organic compounds):	0 %	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Alkaline metals/ Acids.

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 contact with moisture and water.

10.5. Incompatible materials

Alkaline metals/ Acids.

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/ Hydrogen fluoride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

1H-Benzotriazole (1,2,3), cas-no 95-14-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 7000mg/kg			

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

1H-Benzotriazole (1,2,3), cas-no 95-14-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 17900mg/kg			

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

1H-Benzotriazole (1,2,3), cas-no 95-14-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	3 h	1910 mg/m ³			

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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

1H-Benzotriazole (1,2,3), cas-no 95-14-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				Slightly irritating.		

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

1H-Benzotriazole (1,2,3), cas-no 95-14-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				Irritating		

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

Respiratory sensitisation or skin sensitisation

1H-Benzotriazole (1,2,3), cas-no 95-14-7

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

1H-Benzotriazole (1,2,3), cas-no 95-14-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Mouse In vitro tests.				No indications.	OECD 474	
Microorganisms. In vitro tests.	Ames test			No indications.	OECD 471	

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

Carcinogenic properties

1H-Benzotriazole (1,2,3), cas-no 95-14-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				Not carcinogenic		

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met. This product does not contain any carcinogens or potential carcinogens at reportable quantities as listed by OSHA, IARC or NTP.

Reproductive toxicity

1H-Benzotriazole (1,2,3), cas-no 95-14-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
				No indications.		

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

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

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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

1H-Benzotriazole (1,2,3), cas-no 95-14-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Brachydanio rerio		96hLC50	1300 mg/l			
Crustacea	Daphnia magna		24hEC50	200 mg/l			
Crustacea	Daphnia magna		48hEC50	141.6 mg/l			
Algae	Name of species not specified		96hIC50	15.4 mg/l			
Algae	Scenedesmus subspicatus		72hIC50	91 - 141mg/l			
Bacteria	Pseudomonas putida		3hEC50	> 1000mg/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

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

12.3. Bioaccumulative potential

1H-Benzotriazole (1,2,3), cas-no 95-14-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			BCF	2.563			
			Log Pow	1.34			

No bioaccumulation expected.

12.4. Mobility in soil

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. Other adverse effects

None known.

German water pollution classification (WGK): 1

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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 as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. 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.

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.

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:

NFPA ratings

Health hazard:	0
Flammability:	1
Instability:	0

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
2.2.0	1/25/2021	Bureau Veritas HSE/ SRU	1, 7-8, 12, 14, 16

Abbreviations: PBT: Persistent, Bioaccumulative and Toxic

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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 CFR29, §1910.1200.
Training advice:	A thorough knowledge of this safety data sheet should be a prerequisite condition.
Revision date:	1/25/2021
Replaces date:	3/18/2020
Classification method:	Calculation based on the hazards of the known components.
Document language:	US