

## Safety Data Sheet

### LGEM 2

#### SECTION 1: Identification

##### 1.1. Product identifier used on the label

Trade name: LGEM 2

##### 1.2. Recommended use of the chemical and restrictions on use

Recommended uses: Lubricant.

##### 1.3. Details of the supplier of the safety data sheet

###### Supplier

Company: SKF USA Inc.  
Address: 890 Forty Foot Road  
Zip code: 19446  
City: Lansdale, PA  
Country: UNITED STATES OF AMERICA  
E-mail: Mapro.Repair.USA@skf.com  
Phone: +1 888-753-3477  
Homepage: www.skf.com

###### Manufacturer

Company: SKF MPT  
Address: Meidoornkade 14  
Zip code: 3992 AE  
City: AE Houten  
Country: NETHERLANDS  
E-mail: support.mpt@skf.com  
Phone: +31 30 6307200  
Homepage: www.skf.com

##### 1.4. Emergency phone number

+31 30 6307200

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

#### SECTION 2: Hazard(s) identification

##### 2.1. Classification of the chemical in accordance with paragraph (d) of §1910.1200

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**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 which do not result in classification

None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes
Phosphorodithioc acid, mixed O,O-bis(2-ethylhexyl and iso- butyl and iso-propyl) esters, zinc salts	85940-28-9 288-917-4 01-2119521201-61	< 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/effects, acute and delayed.

May cause slight irritation to the skin and eyes.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary.

Treat symptoms. No special immediate treatment required.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media.

**Suitable extinguishing media:** Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.

**Unsuitable extinguishing** Do not use a jet of water, as it may spread the fire.

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media:

### 5.2. Specific hazards arising from the chemical

Not flammable, but combustible. The product decomposes when combusted and the following toxic gases can be formed: Carbon monoxide and carbon dioxide.

### 5.3. Special protective equipment and precautions 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

**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. Store in a dry, cool, well-ventilated area. Store at temperatures below 113°F. Do not store with the following: Strong oxidizers.

### 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 <sup>3</sup>	fiber/cm <sup>3</sup>	Remarks	Notations
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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	ACGIH TWA				Poorly and mildly refined. OEL value for: Mineral oil, excluding metal working fluids	A2, L
Mineral oil, excluding metal working fluids	OSHA		5		OEL value for: Mineral oil, excluding metal working fluids	

A2 = Suspected Human Carcinogen.

I = Inhalable fraktion.

A4 = Not Classifiable as a Human Carcinogen.

L = Exposure by all routes should be carefully controlled to levels as low as possible.

#### Measuring methods:

Compliance with occupational exposure limits may be checked by occupational hygiene measurements according to NIOSH/OSHA.

#### Legal basis:

ACGIH Threshold Limit Values (TLV's) and Biological Exposure Indices (BEI's), 2023.  
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.

In case of risk of formation of spray mist, wear respiratory protective equipment with P2 filter.

#### 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	Paste
Color	No data
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	

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Initial boiling point and boiling range	No data	
Flammability (solid, gas)	No data	
Upper/lower flammability limits	No data	
Explosion limits	No data	
Flash Point	> 150 °C	>302 °F
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	No data	
Vapour pressure	No data	
Density	< 1000 kg/m <sup>3</sup>	(77 °F)
Relative density	No data	
Vapor 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

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reacts with the following: Strong oxidizers.

#### 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

Do not expose to heat (e.g. sunlight).

#### 10.5. Incompatible materials

Strong oxidizers.

#### 10.6. Hazardous decomposition products

None, if stored at the recommended storage conditions.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

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#### Acute toxicity - oral

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	LD50		4564.50 mg/kg		Calculated	

#### Phosphorodithioc acid, mixed O,O-bis(2-ethylhexyl and iso-butyl and iso-propyl) esters, zinc salts, cas-no 85940-28-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		3000 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

##### LGEM 2

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	LD50		2777.00 mg/kg		Calculated	

#### Phosphorodithioc acid, mixed O,O-bis(2-ethylhexyl and iso-butyl and iso-propyl) esters, zinc salts, cas-no 85940-28-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 20000 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.

**Skin corrosion/irritation:** May irritate the skin - may cause reddening. The product does not have to be classified. Test data are not available.

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

**Respiratory sensitization or skin sensitization:** 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. This product does not contain any carcinogens or potential carcinogens at reportable quantities as listed by OSHA, IARC or NTP.

**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.

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**Other toxicological effects:** None known.

### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

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

No bioaccumulation expected. Test data are not available.

#### 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

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 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 number:** Not applicable.

**14.2. UN proper shipping name:** Not applicable.

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

**14.4. Packing group:** Not applicable.

**14.5. Environmental hazards:** Not applicable.

**14.6. Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.**

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None.

### 14.7. Transport in bulk (according to Annex II of MARPOL 73/78 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 specific for the product in question

#### Proposition 65

**Chemicals known to cause cancer:** None of the substances in the formulation is listed in the latest version publicly available.

**Chemicals known to cause reproductive toxicity:** None of the substances in the formulation is listed in the latest version publicly available.

**TSCA:** All substances in the formulation are listed in the latest version publicly available.

#### NFPA ratings

**Health hazard:** 0

**Flammability:** 1

**Instability:** 0

### 15.2. Chemical Safety Assessment

Substance name
Phosphorodithioc acid, mixed O,O-bis(2-ethylhexyl and iso-butyl and iso-propyl) esters, zinc salts

## SECTION 16: Other information

### Version history and indication of changes

Version	Revision date	Responsible	Changes
2.4.0	4/24/2023	Bureau Veritas HSE/ SRU	1, 7-11, 15-16

**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 CFR29, §1910.1200.

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

**Issued:** 2/6/2019

**Revision date:** 4/24/2023



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**Replaces date:** 6/8/2022

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

**Country:** US