

Safety data sheet

Version: 02.02/USA

SECTION 1: Identification

1.1. Product identifier

Trade name: LGEM 2

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

Recommended uses: Lubricant Lubricating grease

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

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

1.3. Details of the supplier of the safety data sheet

Supplier: SKF MAINTENANCE PRODUCTS
Postbus 1008
NL-3430 BA Nieuwegein
The Netherlands
Tel: +31 30 6307200
Email: sebastien.david@skf.com
WWW: www.skf.com

1.4. Emergency telephone number

+31 30 6307200

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification: Aquatic Chronic 2

Most serious harmful effects: Toxic to aquatic life with long lasting effects.
Individuals with a known allergy to Polysulfides, di-tert-Bu & 2,5-bis(octylidithio)-1,3,4-thiadiazole may exhibit an allergic response to the product.

2.2. Label elements



H-phrases: Toxic to aquatic life with long lasting effects.

P-phrases: Avoid release to the environment.

Dispose of contents/container in accordance with local regulation.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

CAS No.	Substance	w/w%	Note
12001-85-3	Naphthenic acids, zinc salts	0,25 - 1	.
234-409-2	.	.	.
.	.	.	.
1314-13-2	zinc oxide	0,25 - 1	.
215-222-5	.	.	.
--	Aromatic phosphoric acid ester	0,25 - 1	.
--	derivative	.	.
68937-96-2	Polysulfides, di-tert-Bu	0,1 - 1	.
273-103-3	.	.	.
13539-13-4	2,5-bis(octyldithio)-1,3,4-thiadiazole	0,1 - 1	.
236-912-2	.	.	.
.	.	.	.
.	.	.	.
128-39-2	2,6-di-tert-butylphenol	0,1 -	.
204-884-0	.	0,25	.
.	.	.	.
128-37-0	2,6-Ditertiary-butylpara-cresol	0,1 -	.
204-881-4	.	0,25	.
112-90-3	(Z)-octadec-9-enylamine	0,1 -	.
204-015-5	.	0,25	.

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 discomfort.
Skin:	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
Eyes:	Flush with water (preferably using eyewash equipment) until irritation subsides. Seek medical advice if symptoms persist.
Other information:	Bring the safety data sheet or label when seeking medical advice

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

The product contains small amounts of Polysulfides, di-tert-Bu & 2,5-bis(octyldithio)-1,3,4-thiadiazole. Individuals 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, carbon dioxide or water mist. Use water or water mist to cool non-ignited inventory.
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. Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

5.3. Advice for firefighters

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: Stay upwind/keep distance from source. 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. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

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

The product should be used under well-ventilated conditions and preferably under process ventilation. 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

Store safely, out of reach of children and away from food, animal feeding stuffs, drugs, etc. Do not store with the following: Strong oxidisers/ Strong acids/ Strong alkalis.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Legal basis: ACGIH Threshold Limit Values (TLV's) and Biological Exposure Indices (BEI's), 2014. OSHA 29 CFR part 1910.1000, table Z1-Z3, Limits for Air Contaminants 2006.

Contains no substances subject to disclosure requirements.

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, skin protection: Wear gloves. Type of material: Nitril rubber. Breakthrough time has not been determined for the product. Change gloves often.

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

State:	Paste
Color:	Black
Odour:	Characteristic
Odour threshold:	No data
pH (solution for use):	No data
pH (concentrate):	No data
Melting point/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
Upper/lower flammability limits:	No data
Upper/lower explosive limits:	No data
Vapor pressure:	No data
Vapour density:	No data
Relative density:	0,9 g/cm ³ (77 °F)

Solubility:	Insoluble in the following: Water.
Partition coefficient n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	No data
Oxidizing properties:	No data

9.2. Other information

NLGI: 2

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Strong oxidisers/ Strong acids/ Strong alkalis.

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

None known.

10.5. Incompatible materials

Strong oxidisers/ Strong acids/ Strong alkalis.

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral: The product does not have to be classified. Based on available data, the classification criteria are not met. Ingestion of large quantities may cause discomfort.

68937-96-2:

Rat: LD50 = 6500 mg/kg

1314-13-2:

Rat: LD50 > 2001 mg/kg

128-39-2:

Rat: LD50 > 2001 mg/kg

128-37-0:

Rat: LD50 = 2930 mg/kg

Acute toxicity - dermal:

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

128-39-2:

Rabbit: LD50 > 1001 mg/kg

128-37-0:

Rat: LD50 > 5000 mg/kg

Acute toxicity - inhalation:

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

1314-13-2:

Rat: 4hLD50 = 5,7 mg/l

Skin corrosion/irritation:

The product does not have to be classified. Test data are not available for all substances

128-39-2:

Rat: Slightly irritating

Serious eye damage/eye irritation:

The product does not have to be classified. Test data are not available for all substances

128-39-2:

	Rabbit: Slightly irritating
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available for all substances. The product contains small amounts of Polysulfides, di-tert-Bu & 2,5-bis(octyldithio)-1,3,4-thiadiazole. Individuals with a known allergy may exhibit an allergic response to the product. 128-39-2: Guinea pig: Not sensitizing
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:	On warming/heating, the vapours emitted may cause irritation to the respiratory organs. May cause coughing and breathing difficulties.

SECTION 12: Ecological information

12.1. Toxicity

	Toxic to aquatic life with long lasting effects.
Acute toxicity:	68937-96-2: Daphnia: 48hEC50 = 63 mg/l (OECD 202) 1314-13-2: Fish: 96hLC50 > 6 mg/l Daphnia: 48hEC50 = 2,2 mg/l Aromatic phosphoric acid ester derivative: Fish: 96hLC50 = 0,8 mg/l Daphnia: 48hEC50 = 0,202 mg/l 128-39-2: Fish: 96hLC50 = 0,11 mg/l Daphnia: 48hEC50 = 0,45 mg/l 128-37-0: Fish: 96hLC50 > 0,57 mg/l (OECD 203) Daphnia: 48hEC50 > 0,17 mg/l 112-90-3: Daphnia: 48hEC50 = 0,011 mg/l
Chronic toxicity:	68937-96-2: Algae: 72hEC50 > 101 mg/l (OECD 201) 1314-13-2: Algae: 72hEC50 = 0,17 mg/l 128-39-2: Algae: 72hEC50 = 3,6 mg/l 128-37-0: Daphnia: 21dNOEC > 0,39 mg/l Algae: 72hEC50 > 0,42 mg/l

12.2. Persistence and degradability

Not expected to be biodegradable.

68937-96-2:
13% (28d)

128-37-0:
30%

12.3. Bioaccumulative potential

The product contains at least one substance that is bioaccumulative in organisms.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

No assessment has been made.

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 meets the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

ID number: xxxx

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.

SECTION 14: Transport information

ADR/DOT

14.1. UN number

3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((Z)-octadec-9-enylamine)

14.3. Transport hazard class(es)

9

14.4. Packing group

III

Hazard identification number

90

Tunnel restriction code:

E

14.5. Environmental hazards

The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l. Exceptions may apply. Please consult 49 CFR.

IMDG

14.1. UN number

3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((Z)-octadec-9-enylamine)

14.3. Transport hazard class(es)

9

14.4. Packing group

III

14.5. Environmental hazards

The product must be labelled as a Marine Pollutant (MP) in packaging sizes of more than 5 kg/l.

IMDG Code segregation group:

-

ICAO/IATA

14.1. UN number

3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((Z)-octadec-9-enylamine)

14.3. Transport hazard class(es)

9

14.4. Packing group III
14.5. Environmental hazards The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l. Exceptions may apply. Please consult 49 CFR.

14.6. Special precautions for user
None.

14.7. Transport in bulk according to Annex II of MARPOL73/78 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.

NFPA ratings (scale 0 - 4)

Health Hazard: 1

Flammability: 1

Instability: 0

HMIS III ratings (scale 0 - 4)

Health hazard: 1

Flammability: 1

Physical hazard: 0

SECTION 16: Other information

Changes have been made in the following sections: 15

Abbreviation explanations: PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity

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

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

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.

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