Safety Data Sheet

LGLT 2

Replaces date: 23/03/2021

Revision date: 27/06/2022
Version: 2.2.0

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

1.1. Product identifier

Trade name: LGLT 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
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: 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.

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
Dec-1-ene, homopolymer, hydrogenated	68037-01-4 500-183-1 01-2119486452-34	70 -< 90 %	4	Asp. Tox. 1;H304

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole	1474044-73-9 939-692-2 01-2119983498-16	1 -< 2.5 %		Aquatic Chronic 3;H412

Please see section 16 for the full text of H- / EUH-phrases.

4 = H304 is not applicable due to the high viscosity of the product.

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 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.

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/ Nitrous gases/ Metal oxides/ Sulphur oxides.

5.3. Advice for firefighters

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: 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 equivalent to EN 469 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

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 cool, dry place.

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 the stated occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: EH40/2005 Workplace exposure limits. Last amended January 2020.

PNEC

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,041 mg/l			
PNEC aqua (marine water)	0,0041 mg/l			
PNEC aqua (intermittent releases)	0,41 mg/l			
PNEC STP (wastewater-treatment facilities)	8000 mg/l			
PNEC sediment (freshwater)	380,62 mg/kg			
PNEC sediment (marine water)	38,06 mg/kg			
PNEC soil	308,98 mg/kg			

PNEC oral (foodstuffs)	6,67 mg/kg			

DNEL - workers

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	4,408 mg/m³				
Dermal DNEL (long-term exposure - systemic effects)	6,25 mg/kg bw/day				

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: 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. 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	Beige
Odour	Characteristic
Solubility	Insoluble in the following: Water.

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
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	No data	
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	No data	

Viscosity	No data	
Partition coefficient n-octonol/water	No data	
Vapour pressure	< 0.001 hPa	(20 °C)
Density	No data	
Relative density	0.86	(20 °C)
Vapour 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

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

None known.

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/ Nitrous gases/ Metal oxides/ Sulphur oxides.

SECTION 11: Toxicological information

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

Acute toxicity - oral

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		OECD 423	

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000 mg/kg		OECD 401	

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

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		OECD 402	

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

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

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	> 5.2 mg/l		OECD 403	

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (vapour)	4 h	> 2.75 mg/l		OECD 403	

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

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

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Non-irritating	OECD 404	

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Non-irritating	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

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

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Non-irritating	OECD 405	

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Non-irritating	OECD 405	

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

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

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Guinea pig				Non-sensitising	OECD 406	

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Guinea pig	Buehler Test			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

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

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
In vitro tests. E. Coli	Ames test			No indications.		

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
In vitro tests. Mammalian cells.				No indications.	OECD 473	

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

Carcinogenic properties: The product does not have to be classified. Test data are not available.

Reproductive toxicity

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

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

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	NOAEL (fertility)		1000 mg/kg bw	No indications.	OECD 421	

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.

Repeated STOT exposure

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	NOAEL (oral)		250 mg/kg		OECD 421	

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

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

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

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Oncorhynchus mykiss	96 h	96hLC50	> 1000 mg/l		OECD 203	
Crustacea	Daphnia magna	48 h	48hEC50	> 1000 mg/l		OECD 202	
Algae	Scenedesmus capricornutum	72 h	72hEC50	> 1000 mg/l		OECD 201	

Crustacea	Daphnia magna	21 d	21dNOEC	125 mg/l			

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Pimephales promelas	96 h	96hLC50	> 1000 mg/l			
Crustacea	Daphnia magna	48 h	48hEC50	41 mg/l		OECD 202	
Algae	Pseudokirchneriella subcapitata	72 h	72hEC50	> 100 mg/l		OECD 201	

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

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

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
					Not readily biodegradable.	OECD 301 B	

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d		0 %	Not readily biodegradable.	OECD 301 C	

Not expected to be biodegradable.

12.3. Bioaccumulative potential

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			

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole, cas-no 1474044-73-9

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	8			
			BCF	3.16			

The product is potentially bioaccumulative.

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. 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 (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.

14.2. 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 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
01-2119486452-34	Dec-1-ene, homopolymer, hydrogenated
01-2119983498-16	2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
2.2.0	27/06/2022	Bureau Veritas HSE/ SRU	1, 3, 5, 7, 9-12, 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.

List of relevant H-statements

H304	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.

List of relevant EUH-statements

EUH210	Safety data sheet available on request.

Country: GB