

Safety Data Sheet

LGWM 2

Replaces date: 23/10/2019

Revision date: 05/05/2020

Version: 2.2.0

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

1.1. Product identifier

Trade name: LGWM 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: Eye Irrit. 2;H319

Most serious harmful effects: Causes serious eye irritation.

2.2. Label elements

Pictograms



Signal word: Warning

Contains

Substance: Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts

H-phrases

H319 Causes serious eye irritation.

P-phrases

P280 Wear eye protection.

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Supplemental information

EUH208

Contains Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salts, Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts. May produce an allergic reaction.

2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	271-529-4	01-2119492627-25	5 -< 10%		Skin Sens. 1;H317
Sulfonic acids, petroleum, calcium salts	61789-86-4	263-093-9	01-2119488992-18	3 -< 5%		Skin Sens. 1;H317
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	274-263-7	01-2119492616-28	3 -< 5%		Skin Sens. 1B;H317
Calcium tetraborate	12007-56-6	234-511-7	01-2120771048-52	1 -< 3%		Repr. 2;H361
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	-	932-231-6	01-2119560592-37	1 -< 2.5%		Skin Irrit. 2;H315 Eye Dam. 1;H318 Aquatic Chronic 3;H412

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

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 immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.
- General:** When obtaining medical advice, show the safety data sheet or label.

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

Irritating to eyes. Causes a burning sensation and tearing. The product contains small amounts of Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salts, Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts. Persons with a known allergy may exhibit an allergic response to the product.

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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/ Nitrous gases.

5.3. Advice for fire-fighters

Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air.

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. Wear gloves. In case of insufficient ventilation, wear respiratory protective equipment.

For emergency responders: In addition to the above: Protective suit equivalent to EN 368, type 3, 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 must 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, medicines, etc. Keep in tightly closed original packaging. Do not store with the following: Strong oxidisers. Store in a dry area.

7.3. Specific end use(s)

None.

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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

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, cas-no 68584-23-6				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	1 mg/l			
PNEC aqua (marine water)	1 mg/l			
PNEC aqua (intermittent releases)	10 mg/l			
PNEC sediment (freshwater)	723500000 mg/kg dw			
PNEC sediment (marine water)	723500000 mg/kg dw			
PNEC soil	868700000 mg/kg dw			
PNEC STP (wastewater-treatment facilities)	100 mg/l			
PNEC oral (foodstuffs)	16,667 mg/kg food			
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, cas-no 70024-69-0				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	1 mg/l			
PNEC aqua (marine water)	1 mg/l			
PNEC aqua (intermittent releases)	10 mg/l			
PNEC sediment (freshwater)	723500000 mg/kg dw			
PNEC sediment (marine water)	723500000 mg/kg dw			
PNEC soil	868700000 mg/kg dw			
PNEC STP (wastewater-treatment facilities)	100 mg/l			
PNEC oral (foodstuffs)	16,667 mg/kg food			
Sulfonic acids, petroleum, calcium salts, cas-no 61789-86-4				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	1 mg/l			
PNEC aqua (marine water)	1 mg/l			
PNEC aqua (intermittent releases)	10 mg/l			
PNEC sediment (freshwater)	226000000 mg/kg dw			

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PNEC sediment (marine water)	226000000 mg/kg dw			
PNEC soil	271000000 mg/kg dw			
PNEC STP (wastewater-treatment facilities)	1000 mg/l			
PNEC oral (foodstuffs)	16,667 mg/kg food			

DNEL - workers

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, cas-no 68584-23-6

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	3,33 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	0,66 mg/m ³				

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, cas-no 70024-69-0

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	0,66 mg/m ³				
Dermal DNEL (long-term exposure - systemic effects)	3,33 mg/kg				

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no -

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	1,7 mg/kg bw/day				

DNEL - general population

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, cas-no 68584-23-6

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	1,667 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	0,33 mg/m ³				
Oral DNEL (long-term exposure - systemic effects)	0,8333 mg/kg bw/day				

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, cas-no 70024-69-0

Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	0,33 mg/m ³				

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Dermal DNEL (long-term exposure - systemic effects)	1,667 mg/kg bw/day				
Oral DNEL (long-term exposure - systemic effects)	0,8333 mg/kg bw/day				
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no -					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	85 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. 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. The suitability and durability of a glove is dependant on usage, e.g. frequency and duration of contact, glove material thickness, functionality and chemical resistance. Always seek advice from the glove supplier. Gloves must conform to EN 374.

Personal protective equipment, respiratory protection: Light use (small volume, shortterm contact (below 10 min.)): Not required. Medium use (medium volume, medium contact (1-2 hours)): Wear respiratory protective equipment. Filter type: A P. 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	Fat.
Colour	Brown
Odour	Characteristic
Solubility	Insoluble in the following: Water.
Explosive properties	Non-explosive
Oxidising properties	Not applicable.

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	

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Flammability limits	No data	
Explosion limits	No data	
Vapour pressure	No data	
Vapour density	No data	
Relative density	0.900	(20 °C)
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	900 kg/m ³	(20 °C)

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Strong 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 contact with moisture and water.

10.5. Incompatible materials

Strong 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/ Nitrous gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, cas-no 68584-23-6

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

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, cas-no 70024-69-0

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

Sulfonic acids, petroleum, calcium salts, cas-no 61789-86-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source

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Rat	LD50		> 16000mg/kg bw			
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Calcium tetraborate, cas-no 12007-56-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		5600 mg/kg			

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no -

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		4445 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

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, cas-no 68584-23-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 5000mg/kg bw		OECD 402	

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, cas-no 70024-69-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 5000mg/kg		OECD 402	

Sulfonic acids, petroleum, calcium salts, cas-no 61789-86-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 4000mg/kg			

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no -

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		2000 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

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	ATE (mix)		41.30 mg/l			

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, cas-no 68584-23-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (aerosol)		> 1.9mg/l		OECD 403	

Sulfonic acids, petroleum, calcium salts, cas-no 61789-86-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (aerosol)	4 h	> 1.9mg/l			

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:

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:

Irritating to eyes. Causes a burning sensation and tearing.

Respiratory sensitisation or skin sensitisation:

According to tests, the product need not be classified. The product contains small amounts of Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salts, Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts. Persons with a known allergy may exhibit an allergic response to the product.

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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 contains at least one substance which is a suspected reproductive hazard. 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

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts, cas-no 68584-23-6

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Pseudokirchneriella subcapitata	72 h	72hEL50	> 1000mg/l			
Crustacea	Daphnia magna	48 h	48hEL50	> 1000mg/l			
Fish	Cyprinodon variegatus	96 h	96hLL50	> 1000mg/l		OECD 203	

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, cas-no 70024-69-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Pseudokirchneriella subcapitata	72 h	72hEC50	> 1000mg/l			
Crustacea	Daphnia magna	48 h	48hEC50	> 1000mg/l			
Fish	Cyprinodon variegatus	96 h	96hLL50	> 10000mg/l		OECD 203	

Sulfonic acids, petroleum, calcium salts, cas-no 61789-86-4

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Pseudokirchneriella subcapitata	72 h	72hEC50	> 1000mg/l			
Crustacea	Daphnia magna	48 h	48hEC50	> 1000mg/l		OECD 202	
Fish	Cyprinodon variegatus	96 h	96hLC50	> 10000mg/l		OECD 203	

Calcium tetraborate, cas-no 12007-56-6

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Crustacea	Name of species not specified	48 h	48hEC50	> 100mg/l			

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Algae	Name of species not specified	72 h	72hEC50	> 100mg/l			
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Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts, cas-no -

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Name of species not specified	96 h	96hNOEC	500 µg/l			
Algae	Name of species not specified	96 h	96hLOEC	1 mg/l			
Algae	Pseudokirchneriella subcapitata	96 h	96hEC50	29 mg/l			
Crustacea	Daphnia magna	48 h	48hEC50	2.9 mg/l			
Fish	Name of species not specified	96 h	96hLC50	1 -< 10mg/l		OECD 203	
Crustacea	Daphnia magna	48 h	48hLOEC	5.6 mg/l			
Crustacea	Name of species not specified	21 d	21dNOEC	1.18 mg/l			
Fish	Name of species not specified	72 h	72hNOEC	0.23 mg/l			
Crustacea	Name of species not specified	48 h	48hNOEC	379 µg/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

Test data are not available.

12.3. Bioaccumulative potential

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

No assessment has been made.

12.6. Other adverse effects

Oil products may cause soil and water pollution.

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 (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-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.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
2.2.0	05/05/2020	Bureau Veritas HSE/ SRU	3, 8, 11, 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

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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. Test data.

List of relevant H-statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Document language: GB