SAFETY DATA SHEET



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

1.1 Product identifier

Product name Product MG 0272 GR
UFI: F6S4-S036-X008-JJTM

 Product code
 471055-DE03

 SDS #
 471055

 Product type
 Grease

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

Identified uses

General use of lubricants and greases in vehicles or machinery-Industrial General use of lubricants and greases in vehicles or machinery-Professional

Use of the substance/

mixture

Grease for industrial applications

For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

1.3 Details of the supplier of the safety data sheet

Supplier Castrol Holdings Europe B.V.,

d'Arcyweg 76, 3198NA

Europoort Rotterdam

Castrol Germany GmbH,

Überseeallee 1, 20457 Hamburg

+49 (0) 800 863 73 70

E-mail address MSDSadvice@bp.com

1.4 Emergency telephone number

EMERGENCY Carechem: +44 (0) 1235 239 670 (24/7)

TELEPHONE NUMBER

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317

See Section 16 for the full text of the H statements declared above.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

2.2 Label elements

UFI: ▶6S4-S036-X008-JJTM

Hazard pictograms



Signal word Warning

Hazard statements H317 - May cause an allergic skin reaction.

Prevention P280 - Wear protective gloves. P261 - Avoid breathing dust.

Response P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical attention.

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SECTION 2: Hazards identification

Storage Not applicable.

Disposal P501 - Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazardous ingredients Naphthenic acids, zinc salts

5,5'-dithiodi-1,3,4-thiadiazole-2(3H)-thione

Supplemental label

elements

Not applicable.

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger

Not applicable.

2.3 Other hazards

Results of PBT and vPvB

assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006,

Annex XIII.

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do

Defatting to the skin.

not result in classification

Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a

major medical emergency.

See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product definition Mixture

Synthetic lubricant and additives. Thickening agent.

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Dilithium azelate (Nonanedioic acid dilithium salt)	REACH #: 01-2120119814-57 EC: 254-184-4 CAS: 38900-29-7	≤10	Acute Tox. 4, H302	ATE [Oral] = 500 mg/ kg	[1]
Naphthenic acids, zinc salts	REACH #: 01-2120783834-41 EC: 234-409-2 CAS: 12001-85-3	<2.5	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1] [2]
4,4'-methylene bis (dibutyldithiocarbamate)	REACH #: 01-2119969655-20 EC: 233-593-1 CAS: 10254-57-6	≤3	Aquatic Chronic 4, H413	-	[1] [2]
5,5'-dithiodi-1,3,4-thiadiazole-2 (3H)-thione		<1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-	[1]

See Section 16 for the full text of the H statements declared above.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids

should be held away from the eyeball to ensure thorough rinsing. Check for and remove any

contact lenses. Get medical attention.

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove Skin contact

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. In the event of any complaints or symptoms, avoid further exposure. Get medical

If inhaled, remove to fresh air. In case of inhalation of decomposition products in a fire, Inhalation

symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours. Get medical attention if symptoms occur.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by

mouth to an unconscious person. If unconscious, place in recovery position and get medical

attention immediately. Get medical attention if symptoms occur.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be

dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Potential acute health effects

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

Ingestion No known significant effects or critical hazards.

Skin contact Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

reaction.

Eye contact No known significant effects or critical hazards.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances

along tissue planes.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing In case of fire, use water fog, alcohol resistant foam, dry chemical or carbon dioxide

extinguisher or spray.

Unsuitable extinguishing

media

media

Do not use water jet. The use of a water jet may cause the fire to spread by splashing the

burning product.

5.2 Special hazards arising from the substance or mixture

Hazards from the No specific fire or explosion hazard. substance or mixture

Hazardous combustion

Combustion products may include the following:

carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide) products

metal oxide/oxides

nitrogen oxides (NO, NO2 etc.) sulphur oxides (SO, SO₂, etc.)

5.3 Advice for firefighters

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SECTION 5: Firefighting measures

Special precautions for fire-fighters

Special protective equipment for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Provide adequate ventilation. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. If emergency personnel are unavailable, contain spilt material. Suction or scoop the spill into appropriate disposal or recycling vessels, then cover spill area with oil absorbent. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 5 for firefighting measures.

See Section 8 for information on appropriate personal protective equipment.

See Section 12 for environmental precautions.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Not suitable

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/containers designed for use with this product. Do not store in unlabelled containers.

Germany - Storage code

Prolonged exposure to elevated temperature

7.3 Specific end use(s)

Recommendations See section 1.2 and Exposure scenarios in annex, if applicable.

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SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name

Exposure limit values

Naphthenic acids, zinc salts

DFG MAC-values list (Germany). [Zinc and its inorganic compounds]

TWA: 2 mg/m³ 8 hours. Issued/Revised: 7/2013 Form: inhalable fraction
PEAK: 4 mg/m³, 4 times per shift, 15 minutes. Issued/Revised: 7/2013
Form: inhalable fraction
PEAK: 0.4 mg/m³, 4 times per shift, 15 minutes. Issued/Revised: 7/2013
Form: respirable fraction
TWA: 0.1 mg/m³ 8 hours. Issued/Revised: 7/2013 Form: respirable fraction

4,4'-methylene bis(dibutyldithiocarbamate) TRGS 900 OEL (Germany).

PEAK: 20 mg/m³ 15 minutes. Issued/Revised: 5/2020 Form: Respirable fraction

TWA: 5 mg/m³ 8 hours. Issued/Revised: 5/2020 Form: Respirable fraction

PEAK: 160 mg/m³ 15 minutes. Issued/Revised: 5/2020 Form: Inhalable fraction

TWA: 20 mg/m³ 8 hours. Issued/Revised: 5/2020 Form: Inhalable fraction

Recommended monitoring procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Biological exposure indices

Product/ingredient name

Exposure indices

No exposure indices known.

Derived No Effect Level

Product/ingredient name	Type	Exposure	Value	Population	Effects
Dilithium azelate (Nonanedioic	DNEL	Long term Dermal -	13.5 mg/kg bw/	Workers	Systemic
acid dilithium salt)			day		
	DNEL	Long term Dermal -	0.172 mg/cm ²	Workers	Local

Predicted No Effect Concentration

Product/ingredient name	Compartment Detail	Value	Method Detail
Dilithium azelate (Nonanedioic acid dilithium salt)	Fresh water	0.023 mg/l	Assessment Factors
			Assessment Factors Assessment Factors

8.2 Exposure controls

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

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SECTION 8: Exposure controls/personal protection

In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eye/face protection
Skin protection
Hand protection

Safety glasses with side shields.

General Information:

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Recommended: Nitrile gloves.

Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:

Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above.

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

Glove Thickness:

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

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SECTION 8: Exposure controls/personal protection

Skin and bodyUse of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots

will be required.

Refer to standards: Respiratory protection: EN 529

Gloves: EN 420, EN 374 Eye protection: EN 166 Filtering half-mask: EN 149

Filtering half-mask with valve: EN 405

Half-mask: EN 140 plus filter Full-face mask: EN 136 plus filter Particulate filters: EN 143 Gas/combined filters: EN 14387

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to

reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Physical state Grease

Colour Yellow. [Light]

Odour Not available.

Odour threshold Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flammability Not available.

Lower and upper explosion Not applicable.

limit

Flash point Closed cup: 267°C (512.6°F) [Estimated. Based on Lubricants - Base Oils]

Auto-ignition temperature

Decomposition temperature

PH

Not available.

Not applicable.

Not applicable.

Not applicable.

Not available.

Solubility

Media	Result
water	Not soluble

Partition coefficient n-octanol/

water (log value)

Not applicable.

Vapour pressure Not available.

	Vapou	r Pressu	re at 20°C	Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Not available.							

Density and/or Relative density

<1000 kg/m³ (<1 g/cm³) at 20°C

Relative vapour density

Not applicable.

Particle characteristics

Median particle size Not available.

9.2 Other information

Explosive propertiesNot available.

Not available.

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SECTION 9: Physical and chemical properties

Oxidising properties Not available.

Drop Point >210 °C

Penetration Number (0.1 mm) 310 to 340 at 25°C

SECTION 10: Stability and reactivity

10.1 ReactivityNo specific test data available for this product. Refer to Conditions to avoid and Incompatible

materials for additional information.

10.2 Chemical stability The product is stable.

10.3 Possibility of hazardous reactions

Hazardous polymerization may occur under certain conditions of storage or use.

10.4 Conditions to avoid Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials Reactive or incompatible with the following materials: oxidising materials.

10.6 HazardousUnder normal conditions of storage and use, hazardous decomposition products should not be decomposition products

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result / Route		thority / nber	Species	Dose	Exposure	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	LD50 Dermal	OECD	402	Rabbit	>2000 mg/kg	-	-
	LD50 Oral	OECD	401	Rat	>300 mg/kg	-	-
Naphthenic acids, zinc salts	LD50 Dermal	OECD	402	Rabbit	>2000 mg/kg	-	-
	LD50 Oral	OECD	423	Rat	>5000 mg/kg	-	-
4,4'-methylene bis (dibutyldithiocarbamate)	LD50 Dermal	OECD	402	Rabbit	>2000 mg/kg	-	-
	LD50 Oral	OECD	401	Rat	>5000 mg/kg	-	-
5,5'-dithiodi- 1,3,4-thiadiazole-2(3H)- thione	LD50 Dermal	OECD	402	Rabbit	>2000 mg/kg	-	-
	LD50 Oral	OECD	420	Rat	>2000 mg/kg	-	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Product MG 0272 GR	7243.8	N/A	N/A	N/A	N/A
Dilithium azelate (Nonanedioic acid dilithium salt)	500	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Test authori numb	•	Species	Route / Result	Test concentration	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD	405	Rabbit	Eyes - Not irritant	-	-
	OECD	439	RhE	Skin - Not irritant	-	-
Naphthenic acids, zinc salts	OECD	492	RhCE	Eyes - Irritant	-	-

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SECTION 11: Toxicological information

	J					
	OECD	439	RhE	Skin - Not irritant	-	-
4,4'-methylene bis (dibutyldithiocarbamate)	OECD	405	Rabbit	Eyes - Not irritant	-	-
	OECD	404	Rabbit	Skin - Not irritant	-	-
5,5'-dithiodi- 1,3,4-thiadiazole-2(3H)- thione	OECD	405	Rabbit	Eyes - Not irritant	-	-
	OECD	404	Rabbit	Skin - Not irritant	-	-

Sensitiser

Product/ingredient name	Route	Test autho num	•	Species	Result	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	skin	OECD	429	Mouse	Not sensitising	-
Naphthenic acids, zinc salts	skin	OECD	442D	Unspecified	Sensitising	-
4,4'-methylene bis (dibutyldithiocarbamate)	skin	OECD	429	Mouse	Not sensitising	-
5,5'-dithiodi- 1,3,4-thiadiazole-2(3H)- thione	skin	OECD	429	Mouse	Sensitising	-

GERM CELL MUTAGENICITY

Product/ingredient name	Test authority / Test number	Cell		Туре	Result	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD 471 -		Experiment: In vitro	Subject: Bacteria	Negative	-
	OECD 473 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	Based on studies with similar substances.
	OECD 476 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	Based on studies with similar substances.
Naphthenic acids, zinc salts	OECD 471 -		Experiment: In vitro	Subject: Bacteria	Negative	Based on studies with similar substances.
	OECD 473 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	Based on studies with similar substances.
	OECD 476 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	-
4,4'-methylene bis (dibutyldithiocarbamate)	OECD 471 -		Experiment: In vitro	Subject: Bacteria	Negative	-
	OECD 473 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	-
	OECD 476 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	-
5,5'-dithiodi- 1,3,4-thiadiazole-2 (3H)-thione	OECD 476 -		Experiment: In vitro	Subject: Mammalian- Animal	Positive	-
	OECD 471 -		Experiment:	Subject: Bacteria	Negative	-

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SECTION 11: Toxicological information

In vitro

OECD 487 - Experiment: Subject: Negative -

In vitro Mammalian-Animal

Carcinogenicity

Not available.

Reproductive toxicity

Product/ ingredient name		uthority / number	Species	Route	Exposure	Developmental	Maternal toxicity	Fertility	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD	422	Rat	Dermal	-	Negative	Negative	Negative	-
Naphthenic acids, zinc salts	OECD	422	Rat	Oral	-	Negative	Negative	Negative	Based on studies with similar substances
4,4'-methylene bis (dibutyldithiocarbamate)	OECD	422	Rat	Oral	-	Negative	Negative	Negative	-
5,5'-dithiodi- 1,3,4-thiadiazole-2 (3H)-thione	OECD	422	Rat	Oral	-	Negative	Positive	Negative	-

Aspiration hazard

Product/ingredient name	Result
Not available.	

Conclusion/Summary Not classified. Based on available data, the classification criteria are not met.

Conclusion/Summary Not available.

Information on likely Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. routes of exposure

Potential acute health effects

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

Ingestion No known significant effects or critical hazards.

Skin contact Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.

Eye contact No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

InhalationNo specific data.IngestionNo specific data.

Skin contact Adverse symptoms may include the following:

irritation redness dryness cracking

Eye contact No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

Potential chronic health effects

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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SECTION 11: Toxicological information

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name		uthority / number	Species	Type / Result	Exposure	Effects	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD	202	Daphnia	Acute EC50 >100 mg/l	48 hours	-	-
	OECD	203	Fish	Acute EC50 >100 mg/l	96 hours	-	-
	OECD	201	Algae	Acute ErC50 23 mg/l	72 hours	-	Based on studies with similar substances.
	OECD	201	Algae	Chronic NOEC 3.2 mg/l	72 hours	-	Based on studies with similar substances.
Naphthenic acids, zinc salts	OECD	202	Daphnia	Acute EL50 35 mg/l	48 hours	-	-
	OECD	201	Algae	Acute ErL50 4 mg/l	72 hours	-	-
	OECD	203	Fish	Acute LL50 ≥100 mg/l	96 hours	-	-
	OECD	201	Algae	Chronic NOELR 1 mg/l	72 hours	-	-
4,4'-methylene bis (dibutyldithiocarbamate)	OECD	202	Daphnia	Acute EC50 >0.052 mg/l	48 hours	-	-
	OECD	203	Fish	Acute EL50 >0.06 mg/l	96 hours	-	-
	OECD	201	Algae	Acute ErC50 >0.0325 mg/	72 hours	-	-
	OECD	201	Algae	Chronic NOEC 0.0325 mg/l	72 hours	-	-
	OECD	211	Daphnia	Chronic NOEC 0.247 mg/	21 days	-	-
5,5'-dithiodi- 1,3,4-thiadiazole-2(3H)- thione	OECD	202	Daphnia	Acute EC50 3 mg/l	48 hours	-	-
	OECD	203	Fish	Acute EC50 >454 mg/l	96 hours	-	-
	OECD	201	Algae	Acute ErC50 20 mg/l	72 hours	-	-
	OECD	201	Algae	Chronic NOEC 9.4 mg/l	72 hours		

Environmental hazards

Not classified as dangerous

12.2 Persistence and degradability

Not expected to be rapidly degradable.

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SECTION 12: Ecological information

Product/ingredient name	Test authority / Test number	Result - Exposure	Remarks
Dilithium azelate (Nonanedioic acid dilithium salt)	OECD 301B	91 % - Readily - 28 days	-
4,4'-methylene bis (dibutyldithiocarbamate)	OECD 301B	21 % - Not readily - 28 days	-
5,5'-dithiodi-1,3,4-thiadiazole-2 (3H)-thione	OECD 301B	0 % - Not readily - 28 days	-

12.3 Bioaccumulative potential

Not available.

Product/ingredient name	LogPow	BCF	Potential
dilithium azelate	-3.3	-	Low
4,4'-methylene bis (dibutyldithiocarbamate)	8.42	10.86	Low
5,5'-dithiodi-1,3,4-thiadiazole-2 (3H)-thione	1.46	-	Low

12.4 Mobility in soil

Soil/water partition

Not available.

coefficient (Koc)

Grease insoluble in water.

12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

12.6 Endocrine disrupting

properties

Mobility

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

Where possible, arrange for product to be recycled. Dispose of via an authorised person/

licensed waste disposal contractor in accordance with local regulations.

Hazardous waste Yes.
European waste catalogue (EWC)

Waste code	Waste designation		
12 01 12*	spent waxes and fats		

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Packaging

Methods of disposal Where possible, arrange for product to be recycled. Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

Waste code	European waste catalogue (EWC)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
Special prescutions	This meterial and its container must be disposed of in a sefe way. Care about he taken when

Special precautions Th

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

References Commission 2014/955/EU Directive 2008/98/EC

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SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for

Not available.

user

instruments

14.7 Maritime transport in bulk according to IMO

Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

Labelling Not applicable.

Other regulations

REACH StatusThe company, as identified in Section 1, sells this product in the EU in compliance with the

current requirements of REACH.

United States inventory

(TSCA 8b)

All components are active or exempted.

Australia inventory (AIIC)
Canada inventory
China inventory (IECSC)
All components are listed or exempted.
All components are listed or exempted.
All components are listed or exempted.
At least one component is not listed.
Korea inventory (KECI)
All components are listed or exempted.
All components are listed or exempted.
All components are listed or exempted.

(PICCS)

·

Taiwan Chemical Substances Inventory

(TCSI)

All components are listed or exempted.

Explosive precursors Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

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SECTION 15: Regulatory information

Persistent Organic Pollutants

Not listed.

EU - Water framework directive - Priority substances

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water 1 (classified according AwSV)

Prohibited Chemicals Regulation (ChemVerbotsV) When placed on the market in Germany, this product is not subject to the Prohibited Chemicals

Regulation (ChemVerbotsV).

Occupational restrictions Observe employment restrictions in the following:

Gesetz zum Schutz der arbeitenden Jugend (Jugendarbeitsschutzgesetz – JArbSchG) Gesetz zum Schutz von Müttern bei der Arbeit, in der Ausbildung und im Studium

(Mutterschutzgesetz – MuSchG)

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

SECTION 16: Other information

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by

Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

[Regulation (EC) No. 1907/2006]

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SADT = Self-Accelerating Decomposition Temperature

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVCB = Complex hydrocarbon substance

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN

01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN

01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN

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SECTION 16: Other information

01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN 01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN 01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8, 64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 / RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN 01-2119474889-13

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classifi	cation	Justification
Skin Sens. 1, H317		Calculation method
Full text of abbreviated H statements	H302 H317 H319 H411 H413	Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life.
Full text of classifications [CLP/GHS]	Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 4 Eye Irrit. 2 Skin Sens. 1B	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN SENSITISATION - Category 1B
<u>History</u>		
Date of issue/ Date of revision	02/09/2024.	
Date of previous issue Prepared by	23/07/2024. Product Stewardship	

▼ Indicates information that has changed from previously issued version.

Notice to reader

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Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition Mixture

Code 471055-DE03

Product name Product MG 0272 GR

Section 1: Title

Short title of the exposure

scenario

General use of lubricants and greases in vehicles or machinery - Industrial

List of use descriptors Identified use name: General use of lubricants and greases in vehicles or

machinery-Industrial

Process Category: PROC01, PROC02, PROC08b, PROC09

Sector of end use: SU03

Subsequent service life relevant for that use: No. Environmental Release Category: ERC04, ERC07

Specific Environmental Release Category: ATIEL-ATC SPERC 4.Biv1

Processes and activities covered by the exposure

scenario

Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

Product characteristics:

Physical state: Liquid, vapour pressure < 0.5 kPa

Concentration of substance in product: Covers use of substance/product up to 100 % (unless stated

differently)

Frequency and duration of use: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure: Assumes use at not more than 20°C above ambient temperature.

Assumes a good basic standard of occupational hygiene is

implemented

Contributing scenarios: Operational conditions and risk management measures

General measures applicable to all activities:

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Avoid direct eye contact with product also via contamination on hands.

General exposures (closed systems): No other specific measures identified.

Initial factory fill of equipment Use in contained systems:

No other specific measures identified.

Initial factory fill of equipment Open systems:

Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out operation for more than 4 hours.

Operation of equipment containing engine oils and similar Use in contained systems: No other specific measures identified.

Equipment cleaning and maintenance:

Drain down system prior to equipment break-in or maintenance. Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training. Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

Equipment cleaning and maintenance Operation is carried out at elevated temperature (> 20°C above ambient temperature):

Drain down and flush system prior to equipment break-in or maintenance. Provide extract ventilation to emission points when contact with warm (>50°C) lubricant is likely. Wear chemical-resistant gloves (tested to EN374) in

Product MG 0272 GR

General use of lubricants and greases in vehicles or machinery - Industrial combination with intensive management supervision controls. Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

Storage:

Store substance within a closed system.

Section 2.2: Control of environmental exposure

No exposure scenario is presented because the product is not classified for the Environment

Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment):No exposure scenario is presented because the product is not

classified for the Environment

Exposure estimation and reference to its source - Workers

Exposure assessment (human): The ECETOC TRA tool has been used to estimate workplace

exposures unless otherwise indicated.

Section 4: Guidance to check compliance with the exposure scenario

Section 4. Odidance to check compliance with the exposure section		
Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES	
Health	Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	



Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition Mixture

Code 471055-DE03

Product name Product MG 0272 GR

Section 1: Title

Short title of the exposure

scenario
List of use descriptors

General use of lubricants and greases in vehicles or machinery - Professional

Identified use name: General use of lubricants and greases in vehicles or

machinery-Professional

Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC20

Sector of end use: SU22

Subsequent service life relevant for that use: No. Environmental Release Category: ERC09a, ERC09b

Specific Environmental Release Category: ESVOC SpERC 9.6b.v1

Processes and activities covered by the exposure

scenario

Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

Section 2 Operational conditions and risk management measures

Section 2.1 Control of worker exposure

Product characteristics:

Physical state: Liquid, vapour pressure < 0.5 kPa

Concentration of substance in product: Covers use of substance/product up to 100 % (unless stated

differently)

Frequency and duration of use: Covers daily exposures up to 8 hours

Other conditions affecting workers exposure: Assumes use at not more than 20°C above ambient temperature.

Assumes a good basic standard of occupational hygiene is

implemented

Contributing scenarios: Operational conditions and risk management measures

General measures applicable to all activities:

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Use suitable eye protection. Avoid direct eye contact with product also via contamination on hands.

Operation of equipment containing engine oils and similar Use in contained systems: No other specific measures identified.

Material transfers Non-dedicated facility:

Avoid carrying out activities involving exposure for more than 4 hours per day. Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

Equipment cleaning and maintenance Dedicated facility:

Drain down system prior to equipment break-in or maintenance. Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

Storage:

Store substance within a closed system.

Section 2.2: Control of environmental exposure

No exposure scenario is presented because the product is not classified for the Environment

Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment): No exposure scenario is presented because the product is not

classified for the Environment

Exposure estimation and reference to its source - Workers

Exposure assessment (human): The ECETOC TRA tool has been used to estimate workplace

exposures unless otherwise indicated.

Section 4: Guidance to check compliance with the exposure scenario

Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES
Health	Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.