



## Safety data sheet according to UK REACH

Printing date 30.07.2024

Version number 12 (replaces version 11)

Revision: 30.07.2024

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

#### · 1.1 Product identifier

· Trade name: **TRW GLK 1 Brake Grease**

#### · Article number:

A011A675.Z, 32932966.Z, 32932967.Z, PFG110.Z, A008N369.Z, PFG110, 32932966, 32932967

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

No further relevant information available.

#### · Application of the substance / the mixture

Grease

Professional use

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

##### · Manufacturer/Supplier:

ZF Aftermarket UK Ltd.

Abbeyfield Road

Lenton

Nottingham, NG7 2SX

Tel +44 333 240 1123

Fax +44 115 986 92 61

<https://www.zf.com>

##### · Informing department:

Phone: +49 (0) 7541 77 0

E-Mail adress of the competent person for the safety data sheet:

[reach@dekra.com](mailto:reach@dekra.com)

##### · 1.4 Emergency telephone number:

Poison Information Center Munich

Phone: +49 (0) 89 - 19 240

Information in German and English

### \* SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



Skin Sens. 1 H317 May cause an allergic skin reaction.

#### · 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



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- **Signal word** Warning

- **Hazard-determining components of labelling:**

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol

Reaction mass of 1H-Benzotriazole-1-methanamine,N,N-bis(2-ethylhexyl)-6-methyl-,2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, N,N-Bis(2-ethylhexyl)-4-methyl-1H-benzotriazol

- **Hazard statements**

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P103 Read carefully and follow all instructions.

P280 Wear protective gloves / protective clothing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

Please refer to further labelling elements in section 15 of this safety data sheet, if applicable.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### \* SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:**

Lithium soap lubricating grease

Mixture of the substances listed below including additives not requiring identification.

- **Dangerous components:**

CAS: 38900-29-7 EINECS: 254-184-4 Reg.nr.: 01-2120119814-57-X	Dilithium azelate ----- ⚠ Acute Tox. 4, H302	0 - 10%
EC number: 946-010-7 Reg.nr.: 01-2120770934-44-X	Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol ----- ⚠ Skin Sens. 1, H317	≥ 1 - ≤ 10%
EC number: 939-700-4 Reg.nr.: 01-2119982395-25-X	Reaction mass of 1H-Benzotriazole-1-methanamine,N,N-bis(2-ethylhexyl)-6-methyl-,2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, N,N-Bis(2-ethylhexyl)-4-methyl-1H-benzotriazol ----- ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317	≥ 0.1 - < 0.25%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

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**\* SECTION 4: First aid measures****· 4.1 Description of first aid measures****· General information**

Show this safety data sheet to the attending physician.

Personal protection for the First Aider.

Instantly remove any clothing contaminated by the product.

**· After inhalation**

Supply fresh air; consult doctor in case of symptoms.

In case of unconsciousness bring patient into stable side position for transport.

**· After skin contact**

Instantly wash with water and soap and rinse thoroughly.

In case of skin irritations or sensitizing effects, consult doctor.

**· After eye contact**

Use eye protection.

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.

Remove contact lenses if possible.

In case of permanent aches and pains please go and see the doctor.

**· After swallowing**

Rinse out mouth.

Do not induce vomiting.

Call a doctor immediately.

**· 4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**· After skin contact: Allergic reactions****· 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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**\* SECTION 5: Firefighting measures****· 5.1 Extinguishing media****· Suitable extinguishing agents**

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Use fire fighting measures that suit the environment.

**· For safety reasons unsuitable extinguishing agents** Water with a full water jet.**· 5.2 Special hazards arising from the substance or mixture**

Inhalation of combustion gases may cause serious health hazards.

Can be released in case of fire:

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide and carbon dioxide

Metal oxides

During incomplete combustion carbon monoxide can be formed.

**· 5.3 Advice for firefighters****· Protective equipment:** Wear self-contained breathing apparatus.**· Additional information**

Remove goods in stock from incendiary zone, if possible.

Use water to keep fire exposed containers cool.

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### \* **SECTION 6: Accidental release measures**

#### · **6.1 Personal precautions, protective equipment and emergency procedures**

Clear the danger zone.  
Particular danger of slipping on leaked/spilled product.  
Avoid contact with the product.  
Ensure adequate ventilation

#### · **For non-emergency personnel** Evacuate personnel to safe area.

#### · **For emergency responders** Put on suitable personal protective equipment.

#### · **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.

#### · **6.3 Methods and material for containment and cleaning up:**

Collect mechanically.  
Dispose of contaminated material as waste according to section 13.

#### · **6.4 Reference to other sections**

See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

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### \* **SECTION 7: Handling and storage**

#### · **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

#### · **Information about protection against explosions and fires:** Product is combustible.

#### · **Handling**

The usual precautionary measures should be adhered to general rules for handling lubricants.  
Do not eat, drink or smoke while working.  
Avoid direct contact with eyes, skin and clothing.  
Wash hands during breaks and at the end of the work.

#### · **7.2 Conditions for safe storage, including any incompatibilities**

##### · **Storage**

##### · **Requirements to be met by storerooms and containers:**

Store cool and dry in well sealed containers.  
Store only in the original container.  
Ensure sufficient ventilation.

##### · **Information about storage in one common storage facility:**

Store away from oxidising agents.  
Keep away from food, drink and animal feeding stuffs.

##### · **Further information about storage conditions:**

Keep away from ignition sources.  
Protect from direct sunlight.

#### · **7.3 Specific end use(s)** No further relevant information available.

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### \* **SECTION 8: Exposure controls/personal protection**

#### · **8.1 Control parameters**

#### · **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### · **Additional information:** The lists that were valid during the compilation were used as basis.

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- **8.2 Exposure controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and food.  
Take off all contaminated clothing immediately.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
Not necessary if room is well-ventilated.  
Use breathing protection in case of insufficient ventilation.  
Filter P2.
- **Hand protection**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Only use chemical-protective gloves with CE-labelling of category III (EN 374).

- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.  
In case of a layer thickness of 0.4 mm the penetration time is longer than 480 minutes.
- **Eye/face protection**



Tightly sealed safety glasses.

**SECTION 9: Physical and chemical properties**

- |                                                                    |                 |
|--------------------------------------------------------------------|-----------------|
| · <b>9.1 Information on basic physical and chemical properties</b> |                 |
| · <b>General Information</b>                                       |                 |
| · <b>Physical state</b>                                            | Solid           |
| · <b>Colour:</b>                                                   | Beige           |
| · <b>Odour:</b>                                                    | Characteristic  |
| · <b>Odour threshold:</b>                                          | Not determined. |
| · <b>Melting point/freezing point:</b>                             | Not determined  |
| · <b>Boiling point or initial boiling point and boiling range</b>  | Not determined  |
| · <b>Flammability</b>                                              | Not applicable. |
| · <b>Lower and upper explosion limit</b>                           |                 |
| · <b>Lower:</b>                                                    | Not determined. |
| · <b>Upper:</b>                                                    | Not determined. |
| · <b>Flash point:</b>                                              | Not applicable  |

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<ul style="list-style-type: none"><li>· <b>SADT</b></li><li>· <b>pH</b></li><li>· <b>Viscosity:</b></li><li>· <b>Kinematic viscosity</b></li><li>· <b>dynamic:</b></li><li>· <b>Solubility</b></li><li>· <b>Water:</b></li><li>· <b>Partition coefficient n-octanol/water (log value)</b></li><li>· <b>Vapour pressure at 20 °C:</b></li><li>· <b>Density and/or relative density</b></li><li>· <b>Density at 20 °C</b></li></ul>	<p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Insoluble</p> <p>Not determined.</p> <p>&gt; 0 hPa</p> <p>0.97 g/cm<sup>3</sup></p>
<ul style="list-style-type: none"><li>· <b>9.2 Other information</b></li><li>· <b>Appearance:</b></li><li>· <b>Form:</b></li><li>· <b>Important information on protection of health and environment, and on safety.</b></li><li>· <b>Self-inflammability:</b></li><li>· <b>Explosive properties:</b></li><li>· <b>Change in condition</b></li><li>· <b>Evaporation rate</b></li></ul>	<p>Pasty</p> <p>Product is not selfigniting.</p> <p>Product is not explosive.</p> <p>Not determined.</p>
<ul style="list-style-type: none"><li>· <b>Information with regard to physical hazard classes</b></li><li>· <b>Explosives</b></li><li>· <b>Flammable gases</b></li><li>· <b>Aerosols</b></li><li>· <b>Oxidising gases</b></li><li>· <b>Gases under pressure</b></li><li>· <b>Flammable liquids</b></li><li>· <b>Flammable solids</b></li><li>· <b>Self-reactive substances and mixtures</b></li><li>· <b>Pyrophoric liquids</b></li><li>· <b>Pyrophoric solids</b></li><li>· <b>Self-heating substances and mixtures</b></li><li>· <b>Substances and mixtures, which emit flammable gases in contact with water</b></li><li>· <b>Oxidising liquids</b></li><li>· <b>Oxidising solids</b></li><li>· <b>Organic peroxides</b></li><li>· <b>Corrosive to metals</b></li><li>· <b>Desensitised explosives</b></li></ul>	<p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p> <p>Void</p>

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known

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- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Avoid contact with strong oxidizing agents.
- **10.6 Hazardous decomposition products:**  
None in case of intended use and storage in compliance with instructions.

### \* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

**38900-29-7 Dilithium azelate**

Oral LD50 &gt; 300 mg/kg (Rat)

**Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol**

Oral LD50 &gt; 2,000 mg/kg (Rat) (OECD 425)

Dermal LD50 &gt; 2,000 mg/kg (Rat) (OECD 402)

**Reaction mass of 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, N,N-Bis(2-ethylhexyl)-4-methyl-1H-benzotriazol**

Oral LD50 3,313 mg/kg (Rat) (OECD 401)

Dermal LD50 &gt; 2,000 mg/kg (Rat) (OECD 402)

- **Skin corrosion/irritation** Long-term skin contact may cause skin irritation and/or dermatitis.
- **Serious eye damage/irritation** Splashes can cause temporary eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

### \* SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**38900-29-7 Dilithium azelate**

LC50 &gt; 100 mg/l /96h (Cyprinus carpio)

EC50 &gt; 100 mg/l/48h (Daphnia magna)

EC50 &gt; 100 mg/l/72h (Raphidocelis subcapitata)

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**Reaction mass of 1H-Benzotriazole-1-methanamine,N,N-bis(2-ethylhexyl)-6-methyl-,2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, N,N-Bis(2-ethylhexyl)-4-methyl-1H-benzotriazol**

EC50	4.45 mg/l/24h (Daphnia magna) (OECD 202)
EC50	2.05 mg/l/48h (Daphnia magna) (OECD 202)
LC50	1.3 mg/l/96h (Brachydario rerio) (OECD 203)
EC50	0.762 mg/l/72h (Desmodesmus subspicatus) (OECD 201)

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### \* SECTION 13: Disposal considerations

#### • 13.1 Waste treatment methods

##### • Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The waste code numbers mentioned are recommendations based on the probable use of the product.

##### • European waste catalogue

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 06 00	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 99	wastes not otherwise specified
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01 00	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 99	wastes not otherwise specified

##### • Uncleaned packagings:

##### • Recommendation:

Disposal must be made according to official regulations.  
Dispose of packaging according to regulations on the disposal of packagings.  
Non contaminated packagings can be used for recycling.  
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

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### SECTION 14: Transport information

· 14.1 UN number or ID number · ADR/RID, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR/RID, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR/RID, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR/RID, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

### \* SECTION 15: Regulatory information

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

#### · Regulated explosives precursors

None of the ingredients is listed.

#### · Regulated poisons

None of the ingredients is listed.

#### · Reportable explosives precursors

None of the ingredients is listed.

#### · Reportable poisons

None of the ingredients is listed.

#### · Chemical safety assessment

- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EU) 2019/1148

#### · Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

#### · Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
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### \* **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · **Relevant phrases**

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

#### · **Department issuing data specification sheet:**

- ▶ **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:  
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,  
phone: (+49) 511 42079 - 0, reach@dekra.com.

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#### · **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1B: Skin sensitisation – Category 1B
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

- **Sources** Because of lack on recipe information, this SDS was created on the basis of the supplier's SDS.

- \* **Data compared to the previous version altered.**
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