



## Safety data sheet according to UK REACH

Printing date 03.07.2024

Version number 2 (replaces version 1)

Revision: 03.07.2024

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

#### · 1.1 Product identifier

· Trade name: **Brake Assembly Paste**

#### · Article number:

PFG310 PFG310CE PFG310SE PFG310RE PFG310GBR PFG310DEU PFG310CZE PFG310POL  
PFG310FRA PFG310NLD PFG310ESP PFG310PRT PFG310RUS PFG310SWE PFG310DNK  
PFG310FIN PFG310ITA PFG310NOR PFG310BGR PFG310HUN PFG310ROU PFG310EST  
PFG310CNH PFG310TUR PFG310LVA PFG310SVK PFG310HRV PFG310SVN PFG310GRC  
PFG310SRB

#### · 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

Lubricant  
Grease  
Release agent

#### · 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

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### SECTION 2: Hazards identification

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

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

The product is not classified, according to the GB CLP regulation.

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#### · 2.2 Label elements

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

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

##### · Additional information:

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

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

Safety data sheet available on request.

(Contd. on page 2)



## Safety data sheet according to UK REACH

Printing date 03.07.2024

Version number 2 (replaces version 1)

Revision: 03.07.2024

### Trade name: Brake Assembly Paste

(Contd. from page 1)

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

### · **Dangerous components:**

CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17-X	titanium dioxide ☠ Carc. 2, H351	2.5 - 10%
CAS: 68584-23-6 EINECS: 271-529-4 Reg.nr.: 01-2119492627-25-X	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts ⚠ Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 10 %	≥ 2.5 - < 10%
CAS: 61789-86-4 EINECS: 263-093-9 Reg.nr.: 01-2119488992-18-X	Sulfonic acids, petroleum, calcium salts ⚠ Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 10 %	≥ 1 - < 10%
CAS: 70024-69-0 EINECS: 274-263-7 Reg.nr.: 01-2119492616-28-X	Calcium sulphonate ⚠ Skin Sens. 1B, H317 Specific concentration limit: Skin Sens. 1B; H317: C ≥ 10 %	≥ 0.1 - < 10%
CAS: 68411-46-1 EINECS: 270-128-1 Reg.nr.: 01-2119491299-23-X	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ☠ Repr. 2, H361f; Aquatic Chronic 3, H412	0 - ≤ 1%

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

## 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.  
If skin irritation continues, consult a 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.

(Contd. on page 3)

GB



## Safety data sheet according to UK REACH

Printing date 03.07.2024

Version number 2 (replaces version 1)

Revision: 03.07.2024

---

**Trade name: Brake Assembly Paste**

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(Contd. from page 2)

- **After swallowing**  
Do not induce vomiting.  
Call a doctor immediately.
  - **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
  - **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.
- 

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents** Foam, CO<sub>2</sub>, dry chemicals, water spray
  - **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:  
Carbon monoxide and carbon dioxide
  - **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.
- 

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Clear the danger zone.  
Avoid contact with the product.  
Ensure adequate ventilation  
Particular danger of slipping on leaked/spilled product.
  - **For non-emergency personnel** Evacuate personnel to safe area.
  - **For emergency responders** Put on suitable personal protective equipment.
  - **6.2 Environmental precautions:**  
Prevent from spreading (e.g. by damming-in or oil barriers).  
Do not allow to enter drainage system, surface or ground water.
  - **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
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**  
Keep containers tightly sealed.  
Avoid contact with eyes and skin.

(Contd. on page 4)

GB

## Safety data sheet according to UK REACH

Printing date 03.07.2024

Version number 2 (replaces version 1)

Revision: 03.07.2024

**Trade name: Brake Assembly Paste**

(Contd. from page 3)

- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.
- **Handling**  
The usual precautionary measures should be adhered to general rules for handling chemicals.  
Do not eat, drink or smoke while working.  
Avoid direct contact with eyes, skin and clothing.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Store container tightly sealed at a cool place.  
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:**  
Store container in a well ventilated position.  
Store under dry conditions.
- **7.3 Specific end use(s)** Brake fluid

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
WEL: workplace exposure limit  
OEL: Occupational Exposure Limit

#### 13463-67-7 titanium dioxide

WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
OEL (Ireland)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable dust

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
Take off all contaminated clothing immediately.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes.  
Do not eat or drink while working.
- **Breathing equipment:**  
Use breathing protection only when aerosol or mist is formed.  
Filter A/P2.
- **Hand protection**



Protective gloves.

(Contd. on page 5)

GB

**Safety data sheet**  
according to UK REACH

Printing date 03.07.2024

Version number 2 (replaces version 1)

Revision: 03.07.2024

**Trade name: Brake Assembly Paste**

(Contd. from page 4)

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

· **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 0.45 mm the penetration time is longer than 480 minutes.

· **Eye/face protection**



Tightly sealed safety glasses.

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Blue

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Not determined

· **Boiling point or initial boiling point and boiling range**

Not determined

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Flash point:**

> 200 °C (IP 35)

· **Auto-ignition temperature:**

Product is not selfigniting.

· **SADT**

· **pH**

Not determined.

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **dynamic:**

Not determined.

· **Solubility**

· **Water:**

Fully miscible

· **Vapour pressure:**

Not determined.

· **Density and/or relative density**

· **Density at 20 °C**

1.29 g/cm<sup>3</sup> (DIN 51757)

· **9.2 Other information**

· **Appearance:**

· **Form:**

Pasty

· **Important information on protection of health and environment, and on safety.**

· **Self-inflammability:**

Product is not selfigniting.

· **Explosive properties:**

Product is not explosive.

(Contd. on page 6)

— GB —



## Safety data sheet according to UK REACH

Printing date 03.07.2024

Version number 2 (replaces version 1)

Revision: 03.07.2024

**Trade name: Brake Assembly Paste**

(Contd. from page 5)

· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

### 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 according to specifications.
- **10.3 Possibility of hazardous reactions**  
Possible formation of peroxide  
Reacts with light alloys to form hydrogen
- **10.4 Conditions to avoid** All sources of ignition: heat, sparks, open flame, electrostatic discharges.
- **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.

· <b>LD/LC50 values that are relevant for classification:</b>	
<b>13463-67-7 titanium dioxide</b>	
Oral	LD50 > 5,000 mg/kg (Rat) (OECD 425)
<b>68584-23-6 Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts</b>	
Oral	LD50 > 5,000 mg/kg (Rat) (OECD 401)

(Contd. on page 7)

GB



## Safety data sheet according to UK REACH

Printing date 03.07.2024

Version number 2 (replaces version 1)

Revision: 03.07.2024

### Trade name: Brake Assembly Paste

(Contd. from page 6)

Dermal	LD50	> 5,000 mg/kg (rabbit) (OECD 402)
<b>61789-86-4 Sulfonic acids, petroleum, calcium salts</b>		
Oral	LD50	> 16,000 mg/kg (Rat) (772.112-21 CFR 40)
Dermal	LD50	> 4,000 mg/kg (rabbit) (40 CFR section 163.81-2)
Inhalative	LC50	> 1.9 mg/l/4h (Rat) (EPA OPP 81-3)
<b>68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</b>		
Oral	LD50	> 5,000 mg/kg (Rat) (OECD 401)
Dermal	LD50	> 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** Based on available data, the classification criteria are not met.
- **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:**

##### **13463-67-7 titanium dioxide**

EC50	300 - 400 mg/l/96h (Daphnia magna)
	> 100 mg/l/96h (Oncorhynchus mykiss) (OECD 203)

##### **61789-86-4 Sulfonic acids, petroleum, calcium salts**

EC50 (static)	> 1,000 mg/l/48h (Daphnia magna) (EPA OTS 797.1300)
LC50 (static)	> 10,000 mg/l/96h (Cyprinodon variegatus) (OECD 203)
EC50 (static)	> 1,000 mg/l/72h (Raphidocelis subcapitata) (EPA OTS 797.1050)

##### **68411-46-1 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**

EC50	51 mg/l/48h (Daphnia magna) (OECD 202)
LC50	> 100 mg/l/96h (Danio rerio) (OECD 203)
EC50	> 100 mg/l/72h (Desmodesmus subspicatus) (OECD 201)

- **12.2 Persistence and degradability** Easily biodegradable
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential**  
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 8)

— GB —



## Safety data sheet according to UK REACH

Printing date 03.07.2024

Version number 2 (replaces version 1)

Revision: 03.07.2024

**Trade name: Brake Assembly Paste**

(Contd. from page 7)

**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**

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19)
13 02 00	waste engine, gear and lubricating oils
13 02 08*	other engine, gear and lubricating oils
12 00 00	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01 00	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 12*	spent waxes and fats
HP7	Carcinogenic

**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.

Cleaned packing materials have to be admitted to local recycling circuits.

**Recommended cleaning agent:** Water, if necessary with cleaning agent.

### SECTION 14: Transport information

<b>14.1 UN number or ID number</b> <b>ADR/RID, ADN, IMDG, IATA</b>	Void
<b>14.2 UN proper shipping name</b> <b>ADR/RID, ADN, IMDG, IATA</b>	Void
<b>14.3 Transport hazard class(es)</b> <b>ADR/RID, ADN, IMDG, IATA</b> <b>Class</b>	Void
<b>14.4 Packing group</b> <b>ADR/RID, IMDG, IATA</b>	Void

(Contd. on page 9)

— GB —





## Safety data sheet according to UK REACH

Printing date 03.07.2024

Version number 2 (replaces version 1)

Revision: 03.07.2024

**Trade name: Brake Assembly Paste**

(Contd. from page 8)

· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	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.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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**

- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H361f Suspected of damaging fertility.
- H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 10)

GB



## Safety data sheet according to UK REACH

Printing date 03.07.2024

Version number 2 (replaces version 1)

Revision: 03.07.2024


---

**Trade name: Brake Assembly Paste**

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(Contd. from page 9)

**· 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  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1B: Skin sensitisation – Category 1B  
Carc. 2: Carcinogenicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

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GB

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