



**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 24.04.2024

Version number 6 (replaces version 5)

Revision: 24.04.2024

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

· **1.1 Product identifier**

· **Trade name:** TRW DOT 5 Brake Fluid Silicone

· **Article number:** PFB125

· **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** Brake fluid

· **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**

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

· **2.2 Label elements**

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

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Additional information:**

Safety data sheet available on request.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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

#### · 3.2 Mixtures

##### · Description:

Mixture of components not requiring labelling.  
Added are corrosion and oxidation inhibitors.

##### · Dangerous components:

CAS: 126-73-8	tributyl phosphate	< 1%
EINECS: 204-800-2	☠ Carc. 2, H351; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	
Reg.nr.: 01-2119492859-14-X		

· **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** Instantly remove any clothing contaminated by the product.

##### · After inhalation

Take affected persons into the open air and position comfortably  
In case of persistent symptoms consult doctor.

##### · After skin contact

Wash with water and soap.  
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.

##### · After swallowing

Rinse out mouth and then drink plenty of water.  
In case of persistent symptoms consult doctor.

#### · 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

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

· **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.

##### · 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained breathing apparatus.

##### · Additional information

Remove goods in stock from incendiary zone, if possible.

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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**

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**

Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

Keep containers tightly sealed.

Open and handle container with care.

Avoid contact with eyes and skin.

**· Information about protection against explosions and fires:**

The product forms flammable fumes when heated.

**· Handling**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Do not eat, drink or smoke while working.

**· 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:** Protect from humidity and keep away from water.**· 7.3 Specific end use(s)** Brake fluid

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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.

**126-73-8 tributyl phosphate**

WEL (Great Britain)	Short-term value: 5 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup>
OEL (Ireland)	Long-term value: 5 mg/m <sup>3</sup>

· **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**

Do not eat, drink or smoke while working.  
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 only when aerosol or mist is formed.  
Filter A/P2.

**· Hand protection**

Use gloves of stable material (i.e. nitril rubber).

**· Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Chloroprene rubber, CR

Nitrile rubber, NBR

PVC gloves

Recommended thickness of the material: ≥ 0.4 mm

**· 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.

**· Eye/face protection**

Tightly sealed safety glasses.

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**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information**

· <b>Colour:</b>	purple
· <b>Odour:</b>	Light
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	< -50 °C (SAE J 1703)
· <b>Boiling point or initial boiling point and boiling range</b>	> 260 °C (SAE J 1703)
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined.
· <b>Flash point:</b>	> 150 °C (IP 35)
· <b>Auto-ignition temperature:</b>	> 400 °C (ASTM D 286)
· <b>Decomposition temperature:</b>	> 400 °C
· <b>SADT</b>	
· <b>pH</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity at 20 °C</b>	35 - 50 mm <sup>2</sup> /s (ASTM D 445)
· <b>dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>Water:</b>	Not miscible or difficult to mix
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	< 2 hPa
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C</b>	0.945 - 0.965 g/cm <sup>3</sup> (DIN 51757)

**· 9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0.9 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

**· Information with regard to physical hazard classes**

· <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

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· <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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** Brake fluids should never be contaminated with any other substance.
- **10.5 Incompatible materials:**  
Avoid contact with strong oxidizing agents.  
Strong acids and alkali  
Can attack paints and coatings as well as some plastics and rubber.
- **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:**

##### 126-73-8 tributyl phosphate

Oral	LD50	1,552 mg/kg (Rat)
Dermal	LD50	> 3,100 mg/kg (rabbit)
Inhalative	LC50	> 4,242 mg/l/4h (Rat) (OECD 403)

- **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.

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**Additional toxicological information:****Repeated dose toxicity****126-73-8 tributyl phosphate**

Oral NOAEL (90d) 75 mg/kg bw/day (Rat) (EPA OTS 798.2650)

**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

**\* SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****126-73-8 tributyl phosphate**

EC50	12.8 mg/l/24h (Daphnia magna)
EC50 (static)	1.3 mg/l/48h (Oryzias latipes)
EC50	1.1 mg/l/72h (Desmodesmus subspicatus)

**12.2 Persistence and degradability** biodegradable**Other information:** There are no data available about the preparation.**Behaviour in environmental systems:****Components:**

A product that has flown out can lead to the formation of a film on the water surface which reduces the oxygen exchange and results in the organisms dying-off.

**12.3 Bioaccumulative potential** Does not accumulate in organisms**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****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**

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)

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16 01 13\* | brake fluids

- **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
· <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.

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

· <b>Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))</b>
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None of the ingredients is listed.
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· <b>Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b>
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None of the ingredients is listed.
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- **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**

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H351 Suspected of causing cancer.

**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  
Carc. 2: Carcinogenicity – Category 2

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

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