



**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 06.08.2018

Version number 5

Revision: 11.07.2018

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

· **1.1 Product identifier**

· **Trade name:** TRW DOT 4 Brake Fluid GRAND PRIX 600

· **Article number:** PFB601

· **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:**

TRW Automotive Aftermarket  
Stratford Road  
Shirley  
West Midlands  
B90 4AX  
United Kingdom  
Tel. +44.121.506.5000  
Fax +44.121.506.5001  
www.trwaftermarket.com  
cst.uk@trw.com

· **Informing department:** Phone: +49 (0) 2631 / 912 - 0

· **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 CLP regulation.

· **2.2 Label elements**

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

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Precautionary statements**

Keep out of reach of children.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

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

#### · 3.2 Chemical characterisation: Mixtures

##### · Description:

Mixture of the substances listed below including additives not requiring identification.  
Added are corrosion and oxidation inhibitors.

##### · Dangerous components:

CAS: 143-22-6 EINECS: 205-592-6 Reg.nr.: 01-2119531322-53-X	2-[2-(2-butoxyethoxy)ethoxy]ethanol ☠ Eye Dam. 1, H318	≥ 10 - < 20%
CAS: 111-46-6 EINECS: 203-872-2 Reg.nr.: 01-2119457857-21-X	2,2'-oxybisethanol ⚠ Acute Tox. 4, H302	2.5 - 10%
CAS: 111-77-3 EINECS: 203-906-6 Reg.nr.: 01-2119475100-52-X	2-(2-methoxyethoxy)ethanol ☠ Repr. 2, H361d	< 2.5%

· **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** Supply fresh air; consult doctor in case of symptoms.

##### · After skin contact

Wash with water and soap.

If skin irritation continues, consult a doctor.

##### · After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

##### · After swallowing

Rinse out mouth and then drink plenty of water.

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

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.

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- **5.2 Special hazards arising from the substance or mixture**  
Inhalation of combustion gases may cause serious health hazards.  
Formation of flammable mixtures of vapours with air possible.
  - **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**  
Avoid contact with the product.  
Ensure adequate ventilation  
Particular danger of slipping on leaked/spilled product.
  - **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.  
Don't eat, drink or smoke while working.  
Keep containers tightly sealed.  
Avoid contact with eyes and skin.
- **Information about protection against explosions and fires:**  
The product forms flammable fumes when heated.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from humidity and keep away from water.  
Store container in a well ventilated position.  
Store under dry conditions.

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- **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:**

WEL: workplace exposure limit

IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

<b>111-46-6 2,2'-oxybisethanol</b>	
WEL (Great Britain)	Long-term value: 101 mg/m <sup>3</sup> , 23 ppm
<b>111-77-3 2-(2-methoxyethoxy)ethanol</b>	
WEL (Great Britain)	Long-term value: 50.1 mg/m <sup>3</sup> , 10 ppm Sk
IOELV (European Union)	Long-term value: 50.1 mg/m <sup>3</sup> , 10 ppm Skin

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

- **8.2 Exposure controls**

- **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 and skin.

Do not eat or drink while working.

- **Breathing equipment:**

Not necessary if room is well-ventilated.

Use breathing protection only when aerosol or mist is formed.

Filter A/P2.

- **Protection of hands:** 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

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.

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**· Eye 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>· Appearance:</b>	
<b>Form:</b>	Fluid
<b>Colour:</b>	Clear
· <b>Odour:</b>	Light
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value at 20 °C:</b>	7 - 11.5 (SAE J 1703)
<b>· Change in condition</b>	
<b>Melting point/freezing point:</b>	< -50 °C (SAE J 1703)
<b>Initial boiling point and boiling range:</b>	> 260 °C (SAE J 1703)
· <b>Flash point:</b>	> 120 °C (IP 35)
· <b>Inflammability (solid, gaseous)</b>	Not applicable.
· <b>Ignition temperature:</b>	> 300 °C (ASTM D 286)
· <b>Decomposition temperature:</b>	> 300 °C
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.
<b>· Critical values for explosion:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	< 2 hPa
· <b>Density at 20 °C</b>	1.03 - 1.09 g/cm <sup>3</sup> (DIN 51757)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
<b>· Solubility in / Miscibility with</b>	
<b>Water:</b>	Partly miscible
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>· Viscosity:</b>	
<b>kinematic at 20 °C:</b>	5 mm <sup>2</sup> /s

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<b>· 9.2 Other information</b>	No further relevant information available.
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### **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** Heat.
  - **10.5 Incompatible materials:**  
Avoid contact with strong oxidizing agents.  
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.
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### **SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
  - **Primary irritant effect:**
  - **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.
  - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - **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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### **SECTION 12: Ecological information**

- **12.1 Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **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.
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- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

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### **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)
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.

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\* **SECTION 14: Transport information**

<ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul>	Void

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· <b>14.4 Packing group</b> · <b>ADR, 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 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	Void

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**\* SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Directive 2012/18/EU**
  - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
  - **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 54
  - **National regulations**
  - **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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**· Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

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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.  
H318 Causes serious eye damage.  
H361d Suspected of damaging the unborn child.

**· Department issuing data specification sheet:**

This Material Safety Data Sheet has been drawn up in cooperation with:  
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**- Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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)  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Repr. 2: Reproductive toxicity – Category 2

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

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