

Revision: 07.09.2021

Page 1/12

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

Printing date 07.09.2021

Version number 10 (replaces version 9)

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

- · 1.1 Product identifier
- · Trade name: TRW DOT 4 Brake Fluid
- · Article number:

PFB425, PFB450, PFB401, PFB420, PFB420DR, PFB405, 4204450, 4204401, 4204405, PFB425ROM, PFB425GER, PFB425RUS, PFB425BUL, PFB425ENG, PFB425FRA, PFB425POL, PFB425POR, PFB450CE, PFB450SE, PFB450RE, PFB401CE, PFB401SE, PFB401RE, PFB104i2, PFB405CE, PFB405SE, PFB405RE, PFB420AE, PFB420DRAE, PFB401AP, PFB405AP, PFB425AP, PFB450AP, PFB480AP, PFB425MXC, PFB450MXC, PFB490MXC, PFB455.SQ, PFB104, PFB104i

- 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 7541 77 0

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

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



health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

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

(Contd. on page 2)



Page 2/12

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

Version number 10 (replaces version 9) Printing date 07.09.2021 Revision: 07.09.2021

### Trade name: TRW DOT 4 Brake Fluid

(Contd. from page 1)

#### · Hazard pictograms





· Signal word Warning

### · Hazard-determining components of labelling:

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

### Hazard statements

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

#### · Precautionary statements

P102 Keep out of reach of children.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

P405 Store locked up.

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

regulations.

#### · Information pertaining to particular dangers for man and environment

There are analysis results available for this product or a product with a comparable composition which show an eye irritation but not an eye corrosion. This product is classified and labelled according to the analysis results.

- 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.

Added are corrosion and oxidation inhibitors.

	· Dangerous components:		
		2-[2-(2-butoxyethoxy)ethoxy]ethanol	≥ 25 - < 30%
	EINECS: 205-592-6	♦ Eye Dam. 1, H318	
	Reg.nr.: 01-2119475107-38-X	Specific concentration limits: Eye Dam. 1; H318: C ≥ 30 %	
		Eye Irrit. 2; H319: 20 % ≤ C <	
		30 %	
	CAS: 30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	25 - 50%
	EINECS: 250-418-4	♦ Repr. 2, H361	
	CAS: 111-46-6	2,2'-oxybisethanol	2.5 - 10%
	EINECS: 203-872-2	① Acute Tox. 4, H302	
	Reg.nr.: 01-2119457857-21-X		
		·	(Contd. on page 3)



Page 3/12

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

Printing date 07.09.2021 Version number 10 (replaces version 9) Revision: 07.09.2021

### Trade name: TRW DOT 4 Brake Fluid

			Contd. from page 2)
ſ	CAS: 9004-77-7	Butylpolyglykol	≥ 2.5 - < 10%
		Eye Irrit. 2, H319	
ľ	CAS: 111-77-3	2-(2-methoxyethoxy)ethanol	< 2.5%
	EINECS: 203-906-6	& Repr. 2, H361d	1
	Reg.nr.: 01-2119475100-52-X		
ľ	CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	< 2.5%
	EINECS: 203-961-6	(t) Eye Irrit. 2, H319	1
	Reg.nr.: 01-2119475104-44-X		
	CAS: 112-34-5 EINECS: 203-961-6	2-(2-butoxyethoxy)ethanol  Eye Irrit. 2, H319	< 2.5%

<sup>·</sup> 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

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.
- · After skin contact

Wash with water and soap.

If skin irritation continues, consult a doctor.

· After eye contact

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes. In case of permanent aches and pains please go and see the doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage).

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

No further relevant information available.

- · Danger Danger of kidney damage.
- · 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.

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.

(Contd. on page 4)



Page 4/12

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

Printing date 07.09.2021 Version number 10 (replaces version 9) Revision: 07.09.2021

Trade name: TRW DOT 4 Brake Fluid

(Contd. from page 3)

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.

Inform respective authorities in case product reaches water or sewage system.

· 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.

Complete cleaning with water.

· 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.

### SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Prevent formation of aerosols.

Keep containers tightly sealed.

Don't eat, drink or smoke while working.

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.

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

(Contd. on page 5)

GB -



Page 5/12

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

Printing date 07.09.2021 Version number 10 (replaces version 9) Revision: 07.09.2021

Trade name:	TRW	DOT 4	4 Brak	e Fluid
-------------	-----	-------	--------	---------

			(Contd. from p
	2,2'-oxybisetha		
`		Long-term value: 101 mg	• •
OEL (Irela	,	Long-term value: 100 mg	<sub>1</sub> /m <sup>3</sup> , 23 ppm
	2-(2-methoxyet	• •	
WEL (Gre	,	Long-term value: 50.1 m Sk	g/m³, 10 ppm
IOELV (Eu	uropean Union)	Long-term value: 50.1 m Skin	g/m³, 10 ppm
OEL (Irela	ind)	Long-term value: 50.1 m Sk, IOELV	g/m³, 10 ppm
112-34-5	2-(2-butoxyeth	oxy)ethanol	
WEL (Gre	at Britain)	Short-term value: 101.2 i Long-term value: 67.5 m	
IOELV (Eu	uropean Union)	Short-term value: 101.2 ı Long-term value: 67.5 m	mg/m³, 15 ppm
OEL (Irela	ınd)	Short-term value: 101.2 I Long-term value: 67.5 m IOELV	mg/m³, 15 ppm
DNELs			
	2-[2-(2-butoxve	thoxy)ethoxy]ethanol	
Oral		ner, long-term, systemic)	2.5 mg/kg bw/day (human)
Dermal	,	long-term, systemic)	50 mg/kg bw/day (human)
	,	ner, long-term, systemic)	25 mg/kg bw/day (human)
Inhalative		long-term, systemic)	195 mg/m³ (human)
,		ner, long-term, systemic)	117 mg/m³ (human)
111-46-6	2,2'-oxybisetha	nol	
Dermal	DNEL (worker,	long-term, systemic)	43 mg/kg bw/day (human)
	DNEL (consum	ner, long-term, systemic)	21 mg/kg bw/day (human)
Inhalative	DNEL (worker,	long-term, systemic)	44 mg/m³ (human)
		ner, long-term, systemic)	12 mg/m³ (human)
	DNEL (worker,	short-term, local)	60 mg/m³ (human)
111-77-3	2-(2-methoxyet	· · · · · · · · · · · · · · · · · · ·	
Oral		ner, long-term, systemic)	7.5 mg/kg bw/day (human)
Dermal	DNEL (worker,	long-term, systemic)	2.22 mg/kg bw/day (human)
	,	ner, short-term, systemic)	1.33 mg/kg bw/day (human)
Inhalative	,	long-term, systemic)	50.1 mg/m³ (human)
	,	ner, long-term, systemic)	30.1 mg/m³ (human)
112-34-5	2-(2-butoxyeth	, , ,	,
Oral	` •	ner, long-term, systemic)	1.25 mg/kg bw/day (human)
Dermal	,	long-term, systemic)	20 mg/kg bw/day (human)
		ner, long-term, systemic)	10 mg/kg bw/day (human)



Page 6/12

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

Printing date 07.09.2021 Version number 10 (replaces version 9) Revision: 07.09.2021

Trade name:	<b>TRW</b>	DOT 4	Brake	Fluid
-------------	------------	-------	-------	-------

				(Contd. from page 5
	DNEL (consumer, long-t	erm, systemic)	34 mg/m³ (human)	(Conta. nom page c
	DNEL (worker, short-ter	,	101.2 mg/m³ (human)	
	DNEL (worker, long-tern	,	67.5 mg/m³ (human)	
	DNEL (consumer, short-	•	50.6 mg/m³ (human)	
	DNEL (consumer, long-t	erm, local)	34 mg/m³ (human)	
· PNECs	<u> </u>	-		
	2-[2-(2-butoxyethoxy)et	hoxy]ethanol		
	ıa (freshwater)	1.5 mg/L (.)		
PNEC aqu	ıa (marine water)	0.15 mg/L (.)		
PNEC STI	,	500 mg/L (.)		
PNEC soil		0.45 mg/kg soil	dw (.)	
PNEC sec	liment (freshwater)	5.77 mg/kg sed		
PNEC sed	liment (marine water)	0.13 mg/kg sed		
PNEC aqu	ia (intermittent releases)	5 mg/L (.)		
PNEC ora	,	111 mg/kg food	I (.)	
111-46-6 2	2,2'-oxybisethanol			
PNEC aqu	ıa (freshwater)	10 mg/L (.)		
PNEC aqua (marine water)		1 mg/L (.)		
PNEC STP		199.5 mg/L (.)		
PNEC soil		1.53 mg/kg soil	dw (.)	
PNEC sediment (freshwater)		20.9 mg/kg sed	lim. dw (.)	
PNEC aqua (intermittent releases)		10 mg/L (.)		
111-77-3 2	2-(2-methoxyethoxy)eth	anol		
PNEC aqua (freshwater)		12 mg/L (.)		
PNEC aqu	ıa (marine water)	1.2 mg/L (.)		
PNEC STI	P	10,000 mg/L (.)		
PNEC soil		2.44 mg/kg soil dw (.)		
PNEC aqua (intermittent releases)		) 12 mg/L (.)		
112-34-5 2	2-(2-butoxyethoxy)ethai	nol		
PNEC aqua (freshwater)		1 mg/L (.)		
PNEC aqua (marine water)		0.1 mg/L (.)		
PNEC STI	P	200 mg/L (.)		
PNEC soil		0.4 mg/kg soil dw (.)		
PNEC sec	liment (freshwater)	4 mg/kg sedim. dw (.)		
	liment (marine water)	0.4 mg/kg sedir	* *	
PNEC ora	I	56 mg/kg food	(.)	

- · 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.

(Contd. on page 7)



Page 7/12

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

Printing date 07.09.2021 Version number 10 (replaces version 9) Revision: 07.09.2021

Trade name: TRW DOT 4 Brake Fluid

(Contd. from page 6)

Avoid contact with the eyes.

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.

Butyl rubber, BR 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.

· Eye/face protection



Tightly sealed safety glasses.

### SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour: Amber coloured

· *Odour:* Mild

· Odour threshold: Not determined.

Melting point/freezing point: < -50 °C (SAE J 1703)</li>
 Boiling point or initial boiling point and boiling

range > 260 °C (SAE J 1703)

· Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.Flash point: > 100 °C (IP 35)

· Self-inflammability: Product is not selfigniting.

**Decomposition temperature:** Not determined.

· SADT

• **pH at 20 °C** 7 - 10.5 (SAE J 1703)

Viscosity:

Kinematic viscosity
 dynamic at 20 °C:
 Not determined.
 7 mPas (ASTM D 445)

Solubility

Water: Fully miscible
Partition coefficient n-octanol/water (log value)
Vapour pressure at 20 °C: < 2 hPa</li>

(Contd. on page 8)



Page 8/12

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

Printing date 07.09.2021 Version number 10 (replaces version 9) Revision: 07.09.2021

### Trade name: TRW DOT 4 Brake Fluid

(Contd. from page 7)

	(Conta. Irom page 7)
· Density and/or relative density	
· Density at 20 °C	1.02 - 1.07 g/cm <sup>3</sup> (DIN 51757)
· Vapour density	Not determined.
9.2 Other information	
· Appearance: · Form:	Fluid
	Fluid
· Important information on protection of health	
and environment, and on safety.	. 200 °C (ACTM D 20C)
· Ignition temperature:	> 300 °C (ASTM D 286)
· Explosive properties:	Product is not explosive.
Solvent content:	10.00/
· Organic solvents:	13.8 %
Change in condition	Mat data as Sand
· Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
· Explosives	Void
Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammab	le
gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	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 Brake fluids should never be contaminated with any other substance.
- · 10.5 Incompatible materials: Avoid contact with strong oxidizing agents.

(Contd. on page 9)



Page 9/12

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

Printing date 07.09.2021 Version number 10 (replaces version 9) Revision: 07.09.2021

Trade name: TRW DOT 4 Brake Fluid

(Contd. from page 8)

· 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	· LD/LC50 values that are relevant for classification:				
143-22-6	2-[2-(2-	-butoxyethoxy)ethoxy]ethanol			
Oral	LD50	5,170 mg/kg (rat)			
Dermal	LD50	3,540 mg/kg (rabbit)			
111-46-6	2,2'-ox	ybisethanol			
Oral	LD50	16,500 mg/kg (rat)			
Dermal	LD50	13,300 mg/kg (rabbit)			
111-77-3	2-(2-m	ethoxyethoxy)ethanol			
Oral	LD50	7,128 mg/kg (mouse) (OECD 201)			
Dermal	LD50	9,404 mg/kg (rabbit) (OECD 402)			
Inhalative LC0 > 1.2 mg/l/6h (rat) (OECD 403)		> 1.2 mg/l/6h (rat) (OECD 403)			
112-34-5	112-34-5 2-(2-butoxyethoxy)ethanol				
Oral	LD50	5,660 mg/kg (rat)			
Dermal	LD50	4,000 mg/kg (rabbit)			

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation

Causes serious 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

Suspected of damaging fertility or the unborn child.

- · 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.
- · Additional toxicological information:
- · Acute effects (acute toxicity, irritation and corrosivity)

There are analysis results available for this product or a product with a comparable composition which show an eye irritation but not an eye corrosion. This product is classified and labelled according to the analysis results.

· Repeated dose toxicity

Repeated oral intake can cause kidney damage.

143-22-6	143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol					
Oral	NOAEL (90d)	250 mg/kg bw/day (rat) (OECD 408)				
Dermal	Dermal NOAEL (90d) 4,000 mg/kg bw/day (rat)					
111-46-6	111-46-6 2,2'-oxybisethanol					
Oral	Oral NOAEL (90d) 300 mg/kg bw/day (rat)					
NOAEL (28d) 936 mg/kg bw/day (rat) (OECD 407)		(0)				

(Contd. on page 10)

- GB -



Page 10/12

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

Printing date 07.09.2021 Version number 10 (replaces version 9) Revision: 07.09.2021

### Trade name: TRW DOT 4 Brake Fluid

			(Contd. from page 9)
Dermal	NOAEL (28d)	3,549 mg/kg bw/day (mouse)	, , , , , ,
111-77-3 2	2-(2-methoxye	hoxy)ethanol	
Oral	NOAEL (28d)	900 mg/kg bw/day (rat) (OECD 407)	
Dermal	NOAEL (90d)	40 mg/kg bw/day (guinea pig) (OECD 411)	
Inhalative	NOAEC (90d)	> 1,060 mg/m³ (rat) (OECD 413)	
112-34-5 2	2-(2-butoxyeth	oxy)ethanol	
Oral	NOAEL (90d)	250 mg/kg bw/day (rat) (OECD 408)	
Dermal NOAEL (90d) 2,000 mg/kg bw/day (rat) (OECD 411)		2,000 mg/kg bw/day (rat) (OECD 411)	
Inhalative	NOAEC (90d)	94 mg/m³ (rat) (OECD 413) Vapour	

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  Repr. 2
- 11.2 Information on other hazards
- Endocrine disrupting properties
   None of the ingredients is listed.

### \* SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity	· Aquatic toxicity:			
143-22-6 2-[2-(2	143-22-6 2-[2-(2-butoxyethoxy)ethoxy]ethanol			
EC50	2,210 mg/l/48h (Daphnia magna)			
LC50	2,400 mg/l/96h (Pimephales promelas)			
	2,200 - 4,600 mg/l/96h (Leuciscus idus) (DIN 38412-15)			
EC50 (static)	> 612.6 mg/l/72h (Desmodesmus subspicatus)			
111-46-6 2,2'-ox	ybisethanol			
EC50 (static)	> 10,000 mg/l/24h (Daphnia magna) (DIN 38412-11)			
LC50 (dynamic)	LC50 (dynamic) 75,200 mg/l/96h (Pimephales promelas)			
111-77-3 2-(2-m	ethoxyethoxy)ethanol			
EC50 (static)	1,192 mg/l/48h (Daphnia magna)			
EC50 (static)	> 1,000 mg/l/96h (Selenastrum capricornutum) (OECD 201)			
LC50 (static)	5,741 mg/l/96h (Pimephales promelas)			
112-34-5 2-(2-bı	112-34-5 2-(2-butoxyethoxy)ethanol			
EC50 (static)	EC50 (static) > 100 mg/l/48h (Daphnia magna) (OECD 202)			
EC50 (static)	> 100 mg/l/96h (Desmodesmus subspicatus) (OECD 201)			
LC50 (static)	1,300 mg/l/96h (Lepomis macrochirus) (OECD 203)			

- · 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.

(Contd. on page 11)



Page 11/12

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

Printing date 07.09.2021 Version number 10 (replaces version 9) Revision: 07.09.2021

Trade name: TRW DOT 4 Brake Fluid

(Contd. from page 10)

- · **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:

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.

### 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.

- · 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

· 14.1 UN number or ID number · ADR/ADN, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR/ADN, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR/ADN, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR/ADN, 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 tinstruments	to IMO Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Void

GB -

(Contd. on page 12)



Page 12/12

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

Version number 10 (replaces version 9) Printing date 07.09.2021 Revision: 07.09.2021

Trade name: TRW DOT 4 Brake Fluid

(Contd. from page 11)

### SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is contained.

· 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.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H361d Suspected of damaging the unborn child.

· 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.

© DEKRA Assurance Services GmbH. Changing this documents is subject to explicit acceptance by DEKRA Assurance Services GmbH.

#### 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)

DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2 Repr. 2: Reproductive toxicity – Category 2

· \* Data compared to the previous version altered.

GR -