Printing date 28.10.2024



Version number 6.0 (replaces version 5.1) Revision: 28.10.2024 SECTION 1: Identification of the substance/mixture and of the company/ undertaking · 1.1 Product identifier Trade name: BRAKE FLUID DOT 4 · 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 Only for proper handling. Brake fluid · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: MOTOREX AG Bern-Zürich-Strasse 31, Postfach CH-4901 Langenthal Tel. +41 (0)62 919 75 75 www.motorex.com · Further information obtainable from: msds@motorex.com · 1.4 Emergency telephone number: In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only). SECTION 2: Hazards identification · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. · 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 GHS08 · Signal word Warning · Hazard-determining components of labelling: Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate · Hazard statements H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. Precautionary statements If medical advice is needed, have product container or label at hand. P101

- P102 Keep out of reach of children.
- P103 Read carefully and follow all instructions.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

GB

Version number 6.0 (replaces version 5.1)

Printing date 28.10.2024



(Contd. of page 1)

Trade name: BRAKE FLUID DOT 4

- · 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 substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 30989-05-0	Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate	≥25-≤50%
EINECS: 250-418-4	Repr. 2, H361fd	
CAS: 143-22-6 EINECS: 205-592-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	≥10-<20%
Index number: 603-183-00-0	Specific concentration limits:	
Reg.nr.: 01-2119531322-53	Eye Dam. 1; H318: C ≥ 30%	
	Eye Irrit. 2; H319: 20 % ≤ C < 30 %	
CAS: 111-46-6	2,2'-oxybisethanol	≥1-≤10%
EINECS: 203-872-2	Acute Tox. 4, H302	
Index number: 603-140-00-6		
Reg.nr.: 01-211945/85/-21		
CAS: 110-97-4	1,1'-iminodipropan-2-ol	≥1-≤2.5%
EINECS: 203-820-9	Eye Irrit. 2, H319	
Index number: 603-083-00-7		
• Additional information · For the wording of the listed hazard phrases refer to section 16		

ormation: For the wording of the listed nazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Remove residues with soap and water.
- Remove contaminated clothing immediately.
- · After eye contact:
- Rinse opened eye for several minutes under running water. Consult a physician if irritation develops.
- · After swallowing: Do not induce vomitting. Do not take in resorption stimulating agents.
- Consult a physician who will decide on need and method of emptying the stomach.
- 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: Use fire extinguishing methods suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

(Contd. on page 3)

GB



Printing date 28.10.2024

Version number 6.0 (replaces version 5.1)

Trade name: BRAKE FLUID DOT 4

5.3 Advice for firefighters

· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions:
- Dilute with plenty of water.

Do not allow to enter sewers/ 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, sawdust). Dispose 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 disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Open and handle receptacle with care.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: The recommended storage temperature is (deg.C): ≤50°C Keep container tightly sealed.
- · Storage class: 10
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

111-46-6 2,2'-oxybisethanol

WEL Long-term value: 101 mg/m³, 23 ppm

DNELs

30989-05-0 Tris[2-[2-(2-methoxyethoxy)ethoxy] ethyl] orthoborate		
Oral	DNEL/general population/Systemic effects/Long-term	4.1 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	8.3 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	4.1 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	29.1 mg/m3 (worker)
	DNEL/general population/Systemic effects/Long-term	7.2 mg/m3 (consumer)
143-22-6 2	2-[2-(2-butoxyethoxy)ethoxy]ethanol	
Oral	DNEL/general population/Systemic effects/Long-term	50.25 mg/kg/24h (consumer)
	DNEL/general pop/Systemic effects/acute-short term	103.4 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Local Effects / Long-term	5.65 mg/cm2 (worker)
	DNEL / Workers / Systemic effects / Long-term	400 mg/kg/24h (worker)
	DNEL/Workers/Systemic effects/acute-short term	1,005 mg/kg/24h (worker)
		(Contd. on page 4)



Printing date 28.10.2024

Version number 6.0 (replaces version 5.1)

Trade name: BRAKE FLUID DOT 4

			(Contd. of page 3
		term	8.35 mg/cm2 (worker)
	DNEL/general popul/Local effects/acute-	short term	4.173 mg/cm2 (consumer)
	DNEL/general population/Systemic effec	ts/Long-term	200 mg/kg/24h (consumer)
	DNEL/general pop/Systemic effects/acut	e-short term	502.5 mg/kg/24h (consumer)
	DNEL/general population/Local effects/L	ong-term	2.823 mg/cm2 (consumer)
	DNEL/general population/Local effects/L	ong-term	mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term		24 mg/m3 (worker)
	DNEL/Workers/Systemic effects/acute-short term		96 mg/m3 (worker)
	DNEL/Workers/Local effects/acute-short	term	96 mg/m3 (worker)
	DNEL / Workers / Local Effects / Long-te	rm	30.5 mg/m3 (worker)
	DNEL/general population/Systemic effec	ts/Long-term	12 mg/m3 (consumer)
	DNEL/general pop/Systemic effects/acute-short term		48 mg/m3 (consumer)
	DNEL/general pop/Local effects/acute-sh	nort term	48 ma/m3 (consumer)
	DNEL/general population/l ocal effects/l	ona-term	15 252 ma/m3 (consumer)
111-46-6	2 2'-oxybisethanol	ong tonn	
Dermal	DNFL / Workers / Systemic effects / Lon	a-term	43 ma/ka/24h (worker)
Dennai	DNEL / Workers / Systemic ellects / Long	tc/l ong torm	$\frac{43 \text{ mg/kg/24h}}{21 \text{ mg/kg/24h}} \left(\frac{30 \text{ mg/kg}}{24 \text{ mg/kg}} \right)$
Inholotivo	DNEL/general population/Systemic effects	a torm	21 mg/kg/24m (consumer)
maialive	DNEL / Workers / Systemic enects / Long to	y-lenn	44 mg/m3 (worker)
	DNEL / Workers / Local Ellecis / Long-le	27777 4 - //	60 mg/m3 (worker)
	DNEL/general population/Systemic effec	ts/Long-term	12 mg/m3 (consumer)
	DNEL/general population/Local effects/L	ong-term	12 mg/m3 (consumer)
· PNECs			
30989-05	-0 Tris[2-[2-(2-methoxyethoxy)ethoxy] e	ethyl] orthob	orate
PNE	EC / Aquatic organisms / Freshwater	0.2112 mg/l	(aquatic organisms)
PNE	C / Aquatic organisms / Marine water	0.0211 mg/l	(aquatic organisms)
P N relea	PNEC/Aquatic org/intermittent, releases(freshwater)		aquatic organisms)
PNE plan	C/Aquatic organisms/Sewage treatment t/STP	100 mg/l (aq	uatic organisms)
PNE (fres	PNEC / Aquatic organisms / Sediment 0.76 m		aquatic organisms)
PNE (mai	PNEC / Aquatic organisms / Sediment		(aquatic organisms)
143-22-6	2-[2-(2-butoxvethoxv)ethoxvlethanol		
Oral PNE	C / Predators / Secondary poisoning	525.5 mg/k (predators))	kg food (secondary poisoning
PNE	C / Aquatic organisms / Freshwater	100 ma/l (an	uatic organisms)
PNF	C / Aquatic organisms / Marine water	142.57 ma/l	(aquatic organisms)
PNE	C/Aquatic organisms/Sewage treatment	199.5 mg/l (a	aquatic organisms)
PNE (free	EC / Aquatic organisms / Sediment shwater)	11.115 mg/k	g (aquatic organisms)
PNE (mai	EC / Aquatic organisms / Sediment rine water)	1.111 mg/kg	(aquatic organisms)
111-46-6	2.2'-oxvbisethanol		
PNF	C / Aquatic organisms / Freshwater	10 ma/l (aqu	atic organisms)
PNF	C / Aquatic organisms / Marine water	1 ma/l (anua	tic organisms)

Version number 6.0 (replaces version 5.1)



Printing date 28.10.2024

Trade name: BRAKE FLUID DOT 4

	(Contd. of page 4)
PNEC/Aquatic org/intermittent releases(freshwater)	10 mg/l (aquatic organisms)
PNEC/Aquatic organisms/Sewage treatment plant/STP	199.5 mg/l (aquatic organisms)
PNEC / Aquatic organisms / Sediment (freshwater)	20.9 mg/kg (aquatic organisms)
PNEC / Aquatic organisms / Sediment (marine water)	2.09 mg/kg (aquatic organisms)
PNEC / Terrestrial organism / Soil	1.53 mg/kg (terrestrial organisms)
• Additional information: The lists valid during the r	naking were used as basis.
 8.2 Exposure controls Appropriate engineering controls No further data Individual protection measures, such as person General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately. Do not inhale gases / fumes / aerosols. Respiratory protection: Not required. 	a; see section 7. al protective equipment
Hand protection	
The glove material has to be impermeable and preparation	I resistant to the product/ the substance/ the

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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.

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.

Not determined.

7-10.5 (DIN 51369)

- · Eye/face protection Goggles recommended during refilling
- · Body protection: Protective work clothing

SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information Fluid · Physical state Amber coloured Colour: · Odour: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: <-50 °C · Boiling point or initial boiling point and boiling range >260 °C (DIN EN ISO 3405) · Flammability Not applicable. · Lower and upper explosion limit Not determined. · Lower: Not determined. · Upper: >100 °C · Flash point:

- · Decomposition temperature:
- pH at 20 °C

(Contd. on page 6)

GB



Printing date 28.10.2024

Version number 6.0 (replaces version 5.1)

Trade name: BRAKE FLUID DOT 4

	(00.1.4.1.0.1.p.4.90
Viscosity:	
Kinematic viscosity	5-10 mm²/s @ 20 °C
•	20 mm²/s @ 40°C
· Consistency	
Dvnamic:	Not determined
Solubility	
water:	Fully miscible
Partition coefficient n-octanol/water /log	
	15
Value) Hoot Conceity	1.5
	Not determined
vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.02-1.07 g/cm ³ (ASTM D 4052)
Relative density	Not determined.
Vapour density	Not determined.
9 2 Other information	
- Form:	Fluid
Important information on protection of bo	alth
and any ironment and an actory	alli
and environment, and on salety.	Due duet de se net avec ent en sur le sien her evel
Explosive properties:	Product does not present an explosion nazard.
Solvent separation test:	
VOC (EC)	0.00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical haz	zard
Information with regard to physical haz classes	zard
Information with regard to physical haz classes Explosives	zard
Information with regard to physical haz classes Explosives Elammable cases	zard Void Void
Information with regard to physical haz classes Explosives Flammable gases	zard Void Void
Information with regard to physical haz classes Explosives Flammable gases Aerosols	zard Void Void Void
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases	zard Void Void Void Void Void
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure	zard Void Void Void Void Void Void
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids	zard Void Void Void Void Void Void
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids	zard Void Void Void Void Void Void Void Voi
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures	zard Void Void Void Void Void Void Void Voi
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	zard Void Void Void Void Void Void Void Voi
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	zard Void Void Void Void Void Void Void Voi
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	zard Void Void Void Void Void Void Void Voi
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit	zard Void Void Void Void Void Void Void Voi
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	zard Void Void Void Void Void Void Void Voi
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	zard Void Void Void Void Void Void Void Voi
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	zard Void Void Void Void Void Void Void Voi
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids Organic peroxides	zard Void Void Void Void Void Void Void Voi
Information with regard to physical haz classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids Organic peroxides Corrosive to metals	zard Void Void Void Void Void Void Void Voi

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** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

(Contd. on page 7)

GB

Page 7/12

Safety data sheet according to UK REACH



Printing date 28.10.2024

Version number 6.0 (replaces version 5.1)

Trade name: BRAKE FLUID DOT 4

(Contd. of page 6)

GB

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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 relev	ant for classification:
30989-05	-0 Tris[2-[2-((2-methoxyethoxy)ethoxy] ethyl] orthoborate
Oral LD50		2,000 mg/kg (rat)
	NOAEL	1,000 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)
143-22-6	2-[2-(2-buto	xyethoxy)ethoxy]ethanol
Oral	LD50	5,000-11,300 mg/kg (rat)
	NOAEL	250-400 mg/kg/24h (rat)
	LOAEL	1,000-1,200 mg/kg/24h (rat)
Dermal	LD50	3,540 mg/kg (rabbit)
	NOAEL	200-4,000 mg/kg/24h (rat)
		1,000 mg/kg/24h (rabbit)
Inhalative	LC50 / 16h	2.4 mg/l (rat)
	NOAEL	94 mg/m3 (rat)
	NOAEC	120-152.52 mg/m3 (rat)
	NOEC	40 mg/m3 (rat)
111-46-6	2,2'-oxybise	thanol
Oral	LD50	1,000 mg/kg (rat)
	NOAEL	10,000 mg/kg (rat)
	NOAEL	128-300 mg/kg/24h (rat)
	LOAEL	40,000 mg/kg (rat)
Dermal	LD50	13,300 mg/kg (rabbit)
	NOAEL	2,200-4,400 mg/kg/24h (dog)
Inhalative	LC50 / 4h	>4.6 mg/l (rat)
· Reprodu · 11.2 Info	ctive toxicity rmation on c	Suspected of damaging fertility. Suspected of damaging the unborn child. Start has a second s
- Endocrin	e disrupting	l properties
None of the	he ingredient	s is listed.

SECTION 12: Ecological information

· 12.1 Toxicity · Aquatic toxicity:		
LC50	222-1,010 mg/l/96h (fish)	
LC50	222-1,010 mg/l/48h (fish)	
LC50	222-1,010 mg/l/72h (aquatic organisms)	
LC50	222-1,010 ppm/96h (fish)	
EC10	224.4 mg/l (algae)	
EC10	500 mg/l/48h (aquatic invertebrates)	
EC50	211-960 mg/l/24h (aquatic invertebrates)	
		(Contd. on page 8)



Printing date 28.10.2024

Version number 6.0 (replaces version 5.1)

Trade name: BRAKE FLUID DOT 4

		(Contd. of page 7)
EC50	224-1,020 mg/l/72h (algae / cyanobacteria)	
EC0	500 mg/l/48h (aquatic invertebrates)	
EC50	211-960 mg/l/48h (aquatic invertebrates)	
EC50	224.4 mg/l (algae)	
NOEC	224-1,020 mg/l/72h (algae / cyanobacteria)	
143-22	6 2-[2-(2-butoxyethoxy)ethoxy]ethanol	
LC50	2,182-14,257 mg/l/96h (fish)	
LC0	2,150 mg/l/96h (fish)	
LC100	4,600 mg/l/96h (fish)	
LC50	1,740-5,521 mg/l/48h (aquatic invertebrates)	
	2,400 mg/l/48h (fish)	
LC50	2,400-2,967 mg/l/24h (fish)	
EC10	233.9-235.6 mg/l/21d (aquatic invertebrates)	
EC50	174.5-3,167.5 mg/l/24h (aquatic invertebrates)	
EC10	151-1,185 mg/l/72h (algae / cyanobacteria)	
EC50	500-3,211 mg/l/72h (algae / cyanobacteria)	
EC50	518.3 mg/l/21d (aquatic invertebrates)	
EC0	500 ma/l/48h (aquatic invertebrates)	
EC50	500-3.141.3 ma/l/48h (aquatic invertebrates)	
NOEC	97.7-174.6 ma/l/21d (aquatic invertebrates)	
	174.6 mg/l/21d (fish)	
NOFC	62 5-499 mg/l/72h (algae / cvanobacteria)	
111-46	6 2.2'-oxvbisethanol	
LC50	75.2 ma/l/96h (fish)	
LC50	1.500 ma/l/28d (fish)	
EC50	10.000 mg/l/24h (aquatic invertebrates)	
EC50	6 500-13 000 mg/l/96h (algae / cvanobacteria)	
EC50	$33911m\alpha/l/21d$ (aquatic invertebrates)	
NOFC	7500-15000 ma/l/21d (aquatic invertebrates)	
NOEC	100 mg/l/72h (algae / cvanobacteria)	
NOEC	8500.24.000 mg///7d (aquatic invortebrates)	
NOEC	15 290 22 000 mg///70 (aqualic linvertebrates)	
1000	15,500-52,000 mg///70 (iisii)	
· 12.2 Pt		
142.00	6.2.12.(2. butoxyothoxy)othoxylothonol	
Partitio	ocofficient 0.51 [1/log Kew) (Pieceoumulation)	
Piodoa	rodobility PE % (29d) (Diadearodobility) (OECD 201 A)	
bioueg	adability 63 % (200) (Biodegradability) (DECD 301 A)	
111-40	6 2,2 -OXYDISETNANOI	
Partitio	$1 \text{ coefficient} \leq 1.98 [] (log Kow) (Bloaccumulation)$	
Biodeg	adability 90-100 % (280) (Biodegradability) (OECD 301 A)	
· 12.4 M	Dility in soil No further relevant information available.	
· 12.3 R	sons of FDT and VFVD assessment of applicable	
· vPvB:	Not applicable.	
. 12 6 Fi	docrine disrupting properties	
12.0 61		
The pro	duct does not contain substances with endocrine disrupting properties.	(0,)

Version number 6.0 (replaces version 5.1)



Printing date 28.10.2024

Trade name: BRAKE FLUID DOT 4

· 12.7 Other adverse effects

- · Additional ecological information:
- · General notes:

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.

· Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

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

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.

(Contd. on page 10)

(Contd. of page 8)

GB

Version number 6.0 (replaces version 5.1)

Printing date 28.10.2024

Revision: 28.10.2024

Trade name: BRAKE FLUID DOT 4

(Contd. of page 9)

Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

purity requirement

Relevant phrases

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

· Department issuing SDS: Abteilung Produktsicherheit

- Abbreviations and acronyms:

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 * Data compared to the previous version altered.

Annex: Exposure scenario 1

- · Short title of the exposure scenario Industrial use of brake fluids
- Sector of Use
- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- · Product category PC17 Hydraulic fluids
- Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC20 Use of functional fluids in small devices

Environmental release category

ERC7 Use of functional fluid at industrial site

ERC9a Widespread use of functional fluid (indoor)

ERC9b Widespread use of functional fluid (outdoor)

· Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.

· Conditions of use

- · Duration and frequency 5 workdays/week.
- Physical parameters
- · Physical state Fluid

· Concentration of the substance in the mixture The substance is main component.

(Contd. on page 11)

GB

Version number 6.0 (replaces version 5.1)



Printing date 28.10.2024

Trade name: BRAKE FLUID DOT 4

(Contd. of page 10)

- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- · Risk management measures

· Worker protection

- · Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- · Personal protective measures No special measures required.
- Measures for consumer protection No special measures required.
- Environmental protection measures
- Air No special measures required.
- · Water No special measures required.
- Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- Guidance for downstream users No further relevant information available.

Annex: Exposure scenario 2

- Short title of the exposure scenario Professional use of brake fluids • Sector of Use
- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- · Product category PC17 Hydraulic fluids
- · Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC20 Use of functional fluids in small devices

· Environmental release category

ERC9a Widespread use of functional fluid (indoor)

ERC9b Widespread use of functional fluid (outdoor)

- **Description of the activities** / **processes covered in the Exposure Scenario** See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- Physical state Fluid
- · Concentration of the substance in the mixture The substance is main component.
- · Other operational conditions
- · Other operational conditions affecting environmental exposure No special measures required.
- Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures

· Worker protection

- · Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- Personal protective measures No special measures required.
- Measures for consumer protection No special measures required.

(Contd. on page 12)

Printing date 28.10.2024

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Trade name: BRAKE FLUID DOT 4

(Contd. of page 11)

· Environmental protection measures

- Air No special measures required.
- · Water No special measures required.
- Disposal measures Ensure that waste is collected and contained.
- · Disposal procedures Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging

· Exposure estimation

- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

Annex: Exposure scenario 3

· Short title of the exposure scenario Private use of brake fluids

• Sector of Use SU21 Consumer uses: Private households / general public / consumers

· Product category PC17 Hydraulic fluids

Process category

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC20 Use of functional fluids in small devices

· Environmental release category

ERC9a Widespread use of functional fluid (indoor)

ERC9b Widespread use of functional fluid (outdoor)

- **Description of the activities** / **processes covered in the Exposure Scenario** See section 1 of the annex to the Safety Data Sheet.
- · Conditions of use
- · Duration and frequency 5 workdays/week.
- · Physical parameters
- · Physical state Fluid

· Concentration of the substance in the mixture The substance is main component.

- · Other operational conditions
- Other operational conditions affecting environmental exposure No special measures required.
- · Other operational conditions affecting consumer exposure Not required.
- Other operational conditions affecting consumer exposure during the use of the product Not applicable.
- Risk management measures
- · Worker protection
- · Organisational protective measures No special measures required.
- Technical protective measures No special measures required.
- · Personal protective measures No special measures required.

• Measures for consumer protection No special measures required.

· Environmental protection measures

Air No special measures required.

- Water No special measures required.
- · Disposal measures Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- · Waste type Partially emptied and uncleaned packaging
- · Exposure estimation
- · Consumer Not relevant for this Exposure Scenario.
- · Guidance for downstream users No further relevant information available.

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