



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: Revision date: 08/09/2015 :

version: 6.0

.1. Product identifier			
Product name	: Brake Fluid DOT 5.1		
Product code	: 21000		
.2. Relevant identified	d uses of the substance or mixture and uses adv	ised against	
.2.1. Relevant identified	d uses		
Vain use category	: Professional use		
Jse of the substance/mixture	: Automotive care products		
1.2.2. Uses advised aga	inst		
No additional information ava	ilable		
I.3. Details of the sup	plier of the safety data sheet		
MPM International Oil Compa Cyclotronweg 1 2629 HN Delft - Nederland Γ +31 (0)15 2514030 - F +31 nfo@mpmoil.nl - www.mpmo	(0)15 2514031		
1.4. Emergency teleph			
Emergency number	: +31 (0)15 2514030 (08.00 -	17.00)	
Country	Official advisory body	Address Beaumont Hospital Beaumont Road	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Centre Hospitalier Universitaire de Constantine	Avonley Road SE14 5ER London	0870 243 2241
	Constantino		
SECTION 2: Hazards i			
2.1. Classification of t	dentification		
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Classification of the classification according to Not classified 2.2. Label elements	dentification he substance or mixture		
Classification according to Not classified 2.2. Label elements	Identification he substance or mixture Regulation (EC) No. 1272/2008 [CLP] ulation (EC) No. 1272/2008 [CLP] LP) : P102 - Keep out of reach of of P305+P351+P338 - IF IN EY contact lenses, if present and P337+P313 - If eye irritation P301+P312 - IF SWALLOWE	'ES: Rinse cautiously with water f d easy to do. Continue rinsing persists: Get medical advice/atte ED: Call a doctor, a POISON CEN container to officially registered wa	ntion NTER if you feel unwell
2.1. Classification of the classification according to classified Not classified Classified 2.2. Label elements Labelling according to Reg Classified Precautionary statements (Classified) Classified	Identification he substance or mixture Regulation (EC) No. 1272/2008 [CLP] ulation (EC) No. 1272/2008 [CLP] LP) : P102 - Keep out of reach of e P305+P351+P338 - IF IN EY contact lenses, if present and P337+P313 - If eye irritation P301+P312 - IF SWALLOWE P501 - Dispose of contents/c	'ES: Rinse cautiously with water f d easy to do. Continue rinsing persists: Get medical advice/atte ED: Call a doctor, a POISON CEN container to officially registered wa	ntion NTER if you feel unwell
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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-[2-(2-butoxyethoxy)ethoxy] ethanol	(CAS No) 143-22-6 (EC no) 205-592-6 (EC index no) 603-183-00-0 (REACH-no) 01-2119531322-53	0 - 20	Eye Dam. 1, H318
Diethylene glycol	(CAS No) 111-46-6 (EC no) 203-872-2 (EC index no) 603-140-00-6 (REACH-no) 01-2119457857-21	0 - 10	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
2-(2-Methoxyethoxy)ethanol	(CAS No) 111-77-3 (EC no) 203-906-6 (EC index no) 603-107-00-6 (REACH-no) 01-2119475100-52	0 - 3	Repr. 2, H361d
2-(2-Butoxyethoxy)ethanol	(CAS No) 112-34-5 (EC no) 203-961-6 (EC index no) 603-096-00-8 (REACH-no) 01-2119475104-44	0 - 3	Eye Irrit. 2, H319

Name	Product identifier	Specific concentration limits
2-[2-(2-butoxyethoxy)ethoxy] ethanol	(CAS No) 143-22-6 (EC no) 205-592-6 (EC index no) 603-183-00-0 (REACH-no) 01-2119531322-53	(20 = <c 2,="" 30)="" <="" eye="" h319<br="" irrit.="">(C >= 30) Eye Dam. 1, H318</c>

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
After inhalation	: Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical attention.
After skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If irritation persists, consult a specialist.
After eye contact	: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a specialist.
After ingestion	: Get immediate medical advice/attention. Rinse mouth. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink.
4.2. Most important symptoms and effect	cts, both acute and delayed
After skin contact	: Contact during a long period may cause slight irritation.
After eye contact	: May cause severe irritation.
4.3. Indication of any immediate medica	I attention and special treatment needed
First Aid, decontamination, treatment of symptom	ns.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: powder, alcohol-resistant foam, water spray, carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: On heating/burning: release of (highly) toxic gases/vapours e.g.: carbon monoxide - carbon dioxide.
5.3. Advice for firefighters	
Protection during firefighting	: In case of fire: Wear self-contained breathing apparatus.
Other information	: Use water spray/stream to protect personnel and to cool endangered containers.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Avoid contact with skin and eyes.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear suitable protective clothing and eye/face protection.
6.1.2. For emergency responders	
Protective equipment	: Wear suitable protective clothing and eye/face protection.

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6.2.	Environmental precautions	
Do not i	elease in groundwater, surfacewater or	r sewerage. Do not allow to enter into soil/subsoil.
6.3.	Methods and material for containn	nent and cleaning up
For con	tainment	: Prevent spreading over great surfaces (e.g. by damming or installing oil booms).
Method	s for cleaning up	: Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel).
6.4.	Reference to other sections	
Informa	tion on disposal - see Section 13. Inforr	nation on personal protective equipment - see Chapter 8.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes.
Hygiene measures	: Wash hands before breaks and at the end of work. When using do not eat, drink or smoke.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures	: Keep only in the original container in a cool, well-ventilated place.
Storage area	: Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diethylene glycol (111-46-6)		
EU	IOELV TWA (mg/m ³)	101 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	101 mg/m ³
United Kingdom	WEL TWA (ppm)	23 ppm
2-(2-Methoxyethoxy)ethanol	(111-77-3)	
EU	IOELV TWA (mg/m ³)	50,1 mg/m ³
EU	IOELV TWA (ppm)	10 ppm
United Kingdom	WEL TWA (mg/m ³)	50,1 mg/m ³
United Kingdom	WEL TWA (ppm)	10 ppm
2-(2-Butoxyethoxy)ethanol (?	112-34-5)	
EU	IOELV TWA (mg/m ³)	67,5 mg/m³
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m ³)	101,2 mg/m³
EU	IOELV STEL (ppm)	15 ppm
United Kingdom	WEL TWA (mg/m ³)	67,5 mg/m³
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m ³)	101,2 mg/m³
United Kingdom	WEL STEL (ppm)	15 ppm

8.2. Exposure controls

Technical measures

Personal protective equipment

Hand protection

Eye protection

Skin and body protection

Respiratory protection



Other information

- : Provide adequate ventilation.
- : Gloves. Safety glasses.
- : Risk of skin contact: Wear suitable gloves
- : Safety glasses
- : Wear suitable protective clothing
- : If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn

: Wash hands before breaks and at the end of work. When using do not eat, drink or smoke.

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SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: clear.
Colour	: colourless. amber.
Odour	: Low.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: <-50 °C
Freezing point	: No data available
Boiling point	: >260 °C
Flash point	: > 110 °C
Auto-ignition temperature	: > 300 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 2 mbar @ 20°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1067 (1,01 - 1,07) g/l 20C
Solubility	: Miscible with: Water. Alcohol.
Log Pow	: No data available
Log Kow	: <2
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: None.
Explosive limits	: No data available

9.2. **Other information**

No additional information available

SECT	ON 10: Stability and reactivity	
10.1.	Reactivity	
No data	available.	
10.2.	Chemical stability	
The pro	duct is stable at normal handling- and stora	age conditions.
10.3.	Possibility of hazardous reactions	
No dang	gerous reactions known under normal cond	itions of use.
10.4.	Conditions to avoid	
aerosol	or mist generation.	
10.5.	Incompatible materials	
Oxidizin	g substances.	
10.6.	Hazardous decomposition products	
No addi	tional information available	
SECT	ON 11: Toxicological informatio	n
11.1.	Information on toxicological effects	
Acute to	xicity	Not classified
		Probably harmless when inhaled because of the low vapor pressure of the substance at ambient temperature

	May be harmful if swallowed	
Brake Fluid DOT 5.1		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
Skin corrosion/irritation	: Not classified	
	Repeated exposure may cause skin dryness or cracking	
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Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

12.1. Toxicity	
General	: It is expected that the product is not harmful to the environment. The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. That does not mean that large or frequent spills can have on the environment.
Brake Fluid DOT 5.1	
LC50 fish 1	> 96 mg/l @96h
12.2. Persistence and degradability	
Brake Fluid DOT 5.1	
Persistence and degradability	Is well eliminable from water.
12.3. Bioaccumulative potential	
Brake Fluid DOT 5.1	
Log Kow	<2
Bioaccumulative potential	No indication of bio-accumulation potential.
12.4. Mobility in soil	
Brake Fluid DOT 5.1	
Soil	In water, material soluble.
12.5. Results of PBT and vPvB asses	
No additional information available	ssment
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considera	ations
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste disposal according to official state regulations.
Waste treatment methods	: Hand over to officially registered waste disposal company.
European List of Waste (LoW) code	: 16 01 13* - brake fluids
SECTION 14: Transport informat	tion
In accordance with ADR / RID / IMDG / IAT	
	A / ADN
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	· Matan Barkh
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
	. Net exclusion
Transport hazard class(es) (IMDG)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
14.4.Packing groupPacking group (ADR)Packing group (IMDG)	: Not applicable : Not applicable

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14.5.	Environmental hazards		
Dangerous for the environment		: No	
Marine pollutant		: No	
Other information		: No supplementary information available	

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), 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
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child
H373	May cause damage to organs through prolonged or repeated exposure.
EUH210	Safety data sheet available on request.

SDS MPM REACH

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product