



# MPM Brake Fluid DOT 3

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 04/03/2020 Revision date: 08/04/2022 Supersedes: 05/05/2021 version: 3.6

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : MPM Brake Fluid DOT 3  
UFI : QUFE-UR7K-0R1U-EHKY  
Product code : 19000  
Type of product : Brake fluids  
Product group : Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Relevant identified uses

Main use category : Professional use, Industrial use, Consumer use  
Industrial/Professional use spec : Non-dispersive use  
Used in closed systems  
Use of the substance/mixture : Brake fluids

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

MPM International Oil Company BV  
Cyclotronweg 1  
NL 2629 HN Delft, Zuid Holland  
Nederland  
T +31 (0)15 2514030 (08.00 - 17.00 GMT+1)  
[info@mpmoil.com](mailto:info@mpmoil.com), [www.mpmoil.com](http://www.mpmoil.com)

#### 1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319  
Reproductive toxicity, Category 2 H361d  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



CLP Signal word

: WARNING.

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Contains	: Methyl Triglycol Borate
Hazard statements (CLP)	: H319 - Causes serious eye irritation. H361d - Suspected of damaging the unborn child.
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P264 - Wash hands, forearms and face thoroughly after handling. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor. 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. P501 - Dispose of contents/container in accordance with local and national regulations.

### 2.3. Other hazards

The product does not meet the PBT and vPvB classification criteria

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Butyl Triglycol (143-22-6), Diethylene glycol (111-46-6), Methyl Triglycol Borate (30989-05-0), Butyl Polyglycol (9004-77-7), 2-(2-Butoxyethoxy)ethanol (112-34-5), 2-(2-Methoxyethoxy)ethanol (111-77-3)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Butyl Triglycol (143-22-6), Diethylene glycol (111-46-6), Methyl Triglycol Borate (30989-05-0), Butyl Polyglycol (9004-77-7), 2-(2-Butoxyethoxy)ethanol (112-34-5), 2-(2-Methoxyethoxy)ethanol (111-77-3)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Butyl Triglycol (143-22-6), Diethylene glycol (111-46-6), Methyl Triglycol Borate (30989-05-0), Butyl Polyglycol (9004-77-7), 2-(2-Butoxyethoxy)ethanol (112-34-5), 2-(2-Methoxyethoxy)ethanol (111-77-3)

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Butyl Triglycol	CAS-No.: 143-22-6 EC-No.: 205-592-6 EC Index-No.: 603-183-00-0 REACH-no: 01-2119475107-38	$\geq 20 - \leq 29.9$	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	$\geq 15 - \leq 24$	Acute Tox. 4 (Oral), H302

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methyl Triglycol Borate	CAS-No.: 30989-05-0 EC-No.: 250-418-4 EC Index-No.: 250-418-4 REACH-no: 2119462824-33	≥ 5 – ≤ 20	Repr. 2, H361fd
Butyl Polyglycol	CAS-No.: 9004-77-7 EC-No.: 500-012-0 REACH-no: 2119475115-41	≥ 5 – ≤ 10	Eye Irrit. 2, H319
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 – ≤ 2.99	Eye Irrit. 2, H319
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 – ≤ 2.99	Repr. 1B, H360D

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Butyl Triglycol	CAS-No.: 143-22-6 EC-No.: 205-592-6 EC Index-No.: 603-183-00-0 REACH-no: 01-2119475107-38	(20 ≤ C < 100) Eye Irrit. 2; H319 (30 ≤ C < 100) Eye Dam. 1; H318
Butyl Polyglycol	CAS-No.: 9004-77-7 EC-No.: 500-012-0 REACH-no: 2119475115-41	(20 ≤ C < 100) Eye Irrit. 2; H319
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	(3 ≤ C < 100) Repr. 1B; H360D

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	: Remove to fresh air and keep at rest in a position comfortable for breathing. If medical advice is needed, have product container or label at hand.
After inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
After skin contact	: Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
After eye contact	: If eye irritation persists: Get medical advice/attention. In case of eye contact, immediately rinse with clean water for 10-15 minutes.
After ingestion	: Do NOT induce vomiting. Rinse mouth. Call a physician immediately. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink.

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### 4.2. Most important symptoms and effects, both acute and delayed

After inhalation	: May cause respiratory irritation.
After skin contact	: Repeated exposure may cause skin dryness or cracking.
After eye contact	: May cause severe irritation.
After ingestion	: Abdominal pain, nausea. Vomiting.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray, powder, foam and CO2.
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### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Carbon monoxide. Carbon dioxide.
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### 5.3. Advice for firefighters

Precautionary measures fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Mark out the contaminated area with signs and prevent access to unauthorized personnel.
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#### For non-emergency personnel

Protective equipment	: Wear suitable protective clothing and gloves.
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### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
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### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not get in eyes, on skin, or on clothing. Keep container closed when not in use.
Hygiene measures	: Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
Incompatible products	: Oxidizing agent.

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### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

Diethylene glycol (111-46-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOELV TWA (mg/m³)	101 mg/m³
Ireland - Occupational Exposure Limits	
Local name	Diethylene glycol [2,2'-Oxydiethanol]
OEL (8 hours ref) (mg/m³)	100 mg/m³
OEL (8 hours ref) (ppm)	23 ppm
Regulatory reference	Chemical Agents Code of Practice 2021
2-(2-Butoxyethoxy)ethanol (112-34-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-(2-Butoxyethoxy)ethanol
IOELV TWA (mg/m³)	67.5 mg/m³
IOELV STEL (mg/m³)	101.2 mg/m³
IOELV STEL (ppm)	15 ppm
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Ireland - Occupational Exposure Limits	
Local name	2-(2-Butoxyethoxy)ethanol
OEL (8 hours ref) (mg/m³)	67.5 mg/m³
OEL (8 hours ref) (ppm)	10 ppm
OEL (15 min ref) (mg/m³)	101.2 mg/m³
OEL (15 min ref) (ppm)	15 ppm
Regulatory reference	Chemical Agents Code of Practice 2021
2-(2-Methoxyethoxy)ethanol (111-77-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-(2-Methoxyethoxy)ethanol
IOELV TWA (mg/m³)	50.1 mg/m³
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Ireland - Occupational Exposure Limits	
Local name	2-(2-Methoxyethoxy)ethanol
OEL (8 hours ref) (mg/m³)	50.1 mg/m³
OEL (8 hours ref) (ppm)	10 ppm
Regulatory reference	Chemical Agents Code of Practice 2021

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### 8.2. Exposure controls

#### Appropriate engineering controls

##### Technical measures:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### Personal protection equipment

##### Personal protective equipment:

Safety glasses. Gloves.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses

#### Eye protection

Type	Field of application	Characteristics	Standard
Safety glasses, Face shield		With side shields	EN 166

#### Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Wear suitable gloves resistant to chemical penetration

#### Hand protection

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Butyl rubber, Natural rubber	6 (> 480 minutes)	0.3		EN ISO 374, EN 388

#### Respiratory protection

##### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

#### Respiratory protection

Device	Filter type	Condition	Standard
Reusable half mask	Type A - High-boiling (>65 °C) organic compounds	In the event of insufficient ventilation:	

#### Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

##### Other information:

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid.  
Colour : Amber.

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Appearance	: Clear.
Odour	: Slight.
Odour threshold	: Not available
Melting point	: < -50 °C SAE J 1703
Freezing point	: Not available
Boiling point	: > 210 °C SAE J 1703
Flammability (solid, gas)	: > 280 °C
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 100 °C IP 35
Auto-ignition temperature	: Not available
Decomposition temperature	: > 300 °C
pH	: 7 – 10.5 SAE J 1703
Viscosity, kinematic	: 5 – 10 mm <sup>2</sup> /s @20C
Solubility	: Water: 100 % Ethanol: 100 %
Log Kow	: Not available
Log Pow	: ≤ 2
Vapour pressure	: 1 mbar
Vapour pressure at 50°C	: Not available
Density	: 1039 (1010 – 1060) kg/m <sup>3</sup> DIN 51757
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions.

### 10.2. Chemical stability

The substance is hygroscopic and absorbs water as it comes into contact with moisture in the air.

### 10.3. Possibility of hazardous reactions

Peroxides may be formed on prolonged contact with air.

### 10.4. Conditions to avoid

Do not allow contact with water. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Strong oxidizing agent. Strong bases. Strong acids. water.

### 10.6. Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NO<sub>x</sub>), NH<sub>3</sub>, sulphur compounds.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met.)
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Due to the low vapor pressure, inhalation is unlikely to be a hazard at room temperature.

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Additional information : If a significant amount is ingested there is a risk of kidney damage which in extreme cases could lead to kidney failure, coma or dead.  
Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, breathing arrest.

<b>MPM Brake Fluid DOT 3</b>	
LD50 oral rat	5000 mg/kg Limited experience indicates that the fatal dose in humans may be lower.
LD50 dermal rabbit	3000 mg/kg
<b>Butyl Triglycol (143-22-6)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	3540 mg/kg bodyweight
<b>Diethylene glycol (111-46-6)</b>	
ATE CLP (oral)	500 mg/kg bodyweight
<b>Methyl Triglycol Borate (30989-05-0)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
<b>Butyl Polyglycol (9004-77-7)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rabbit	3540 mg/kg bodyweight
ATE CLP (dermal)	3540 mg/kg bodyweight
<b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b>	
LD50 oral rat	3350 mg/kg
LD50 dermal rabbit	2764 mg/kg bodyweight OECD 402
ATE CLP (oral)	3350 mg/kg bodyweight
ATE CLP (dermal)	2764 mg/kg bodyweight
<b>2-(2-Methoxyethoxy)ethanol (111-77-3)</b>	
LD50 dermal rabbit	9404 mg/kg bodyweight OECD 402
ATE CLP (dermal)	9404 mg/kg bodyweight
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met.) pH: 7 – 10.5 SAE J 1703
Additional information	: However, prolonged or repeated exposure can degrease the skin and lead to dermatitis.
<b>Butyl Triglycol (143-22-6)</b>	
pH	7
Serious eye damage/irritation	: Causes serious eye irritation. pH: 7 – 10.5 SAE J 1703
Additional information	: Causes eye irritation
<b>Butyl Triglycol (143-22-6)</b>	
pH	7
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met.)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met.)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met.)
<b>Diethylene glycol (111-46-6)</b>	
NOAEL (chronic, oral, animal/male, 2 years)	1210 mg/kg bodyweight



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<b>Diethylene glycol (111-46-6)</b>	
NOAEL (chronic, oral, animal/female, 2 years)	1160 mg/kg bodyweight
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met.)
<b>MPM Brake Fluid DOT 3</b>	
NOAEL (oral, rat)	500 mg/kg bodyweight
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met.)
<b>Butyl Triglycol (143-22-6)</b>	
LOAEL (oral, rat, 90 days)	1200 mg/kg bodyweight OECD 408 (
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight OECD 408
NOAEL (dermal, rat/rabbit, 90 days)	4000 mg/kg bodyweight
<b>Diethylene glycol (111-46-6)</b>	
LOAEL (oral, rat, 90 days)	40000 mg/kg bodyweight OECD 407
<b>Methyl Triglycol Borate (30989-05-0)</b>	
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight
<b>Butyl Polyglycol (9004-77-7)</b>	
LOAEL (oral, rat, 90 days)	1200 mg/kg bodyweight
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight
<b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b>	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight OECD 408
<b>2-(2-Methoxyethoxy)ethanol (111-77-3)</b>	
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight OECD 407
NOAEC (inhalation, rat, vapour, 90 days)	> 1.06 mg/l air OECD 413
Aspiration hazard	: Not classified
<b>MPM Brake Fluid DOT 3</b>	
Viscosity, kinematic	5 – 10 mm²/s @20C
<b>Butyl Triglycol (143-22-6)</b>	
Viscosity, kinematic	9.2 mm²/s @ 25.0°C
<b>Butyl Polyglycol (9004-77-7)</b>	
Viscosity, kinematic	9.2 mm²/s @ 25.0°C
<b>2-(2-Butoxyethoxy)ethanol (112-34-5)</b>	
Viscosity, kinematic	6.794 mm²/s

### 11.2. Information on other hazards

#### Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Shows an adverse effect in an intact organism or its progeny, which is a change in the morphology, physiology, growth, development, reproduction or life span of an organism, system or (sub)population that results in an impairment of functional capacity, an impairment of the capacity to compensate for additional stress or an increase in susceptibility to other influences

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### Other information

Other information : Irritant side effects: The product contains substances that can irritate locally through skin/eye contact or when inhaled. Contact with local irritants may result in the contact area more easily absorbing harmful substances, such as allergens.

## SECTION 12: Ecological information

### 12.1. Toxicity

General : The product is not expected to be harmful to the environment.  
Hazardous to the aquatic environment, short-term : Not classified  
(acute)  
Hazardous to the aquatic environment, long-term : Not classified  
(chronic)

MPM Brake Fluid DOT 3	
LC50 fish 1	> 100 mg/l @96h (Oncorhynchus Mykiss)
Butyl Triglycol (143-22-6)	
LC50 fish 1	2400 mg/l Pimephales promelas
LC50 fish 2	2200 – 4600 mg/l Leuciscus idus
EC50 72h - Algae [1]	1589 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	3211 mg/l Pseudokirchneriella subcapitata
Diethylene glycol (111-46-6)	
LC50 fish 1	75200 mg/l Pimephales promelas
EC50 96h - Algae [1]	6500 – 13000 mg/l Pseudokirchneriella subcapitata
EC50 96h - Algae [2]	9362 mg/l green algae
NOEC (chronic)	≥ 1000 mg/l Americamysis bahia @23d
Methyl Triglycol Borate (30989-05-0)	
LC50 fish 1	> 222.2 mg/l
LC50 fish 2	> 1010 mg/l
EC50 Daphnia 1	> 211.2 mg/l
EC50 Daphnia 2	> 960 mg/l
EC50 72h - Algae [1]	> 224.4 mg/l
EC50 72h - Algae [2]	> 1020 mg/l
Butyl Polyglycol (9004-77-7)	
LC50 fish 1	> 1800 mg/l
EC50 Daphnia 1	> 3200 mg/l
EC50 72h - Algae [1]	391 mg/l
2-(2-Butoxyethoxy)ethanol (112-34-5)	
LC50 fish 1	1300 mg/l Lepomis Macrochirus
EC50 Daphnia 1	> 100 mg/l Daphnia Magna
EC50 96h - Algae [1]	> 100 mg/l Scenedesmus subspicatus
ErC50 (algae)	> 100 mg/l @ 72u Desmodesmus subspicatus
NOEC chronic fish	369 mg/l @ 30d Lepomis Macrochirus

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2-(2-Butoxyethoxy)ethanol (112-34-5)	
NOEC chronic crustacea	112 mg/l @ 14d Daphnia Magna

2-(2-Methoxyethoxy)ethanol (111-77-3)	
LC50 fish 1	5741 mg/l Pimephales promelas
EC50 Daphnia 1	1192 mg/l Daphnia magna
EC50 96h - Algae [1]	> 1000 mg/l Pseudokirchneriella subcapitata

### 12.2. Persistence and degradability

MPM Brake Fluid DOT 3	
Persistence and degradability	Readily biodegradable.

Butyl Triglycol (143-22-6)	
Persistence and degradability	Rapidly degradable

Diethylene glycol (111-46-6)	
Persistence and degradability	Rapidly degradable

Methyl Triglycol Borate (30989-05-0)	
Persistence and degradability	Rapidly degradable

Butyl Polyglycol (9004-77-7)	
Persistence and degradability	Rapidly degradable

2-(2-Butoxyethoxy)ethanol (112-34-5)	
Persistence and degradability	28 days.
Biodegradation	100 % OESO 301C

2-(2-Methoxyethoxy)ethanol (111-77-3)	
Persistence and degradability	Rapidly degradable

### 12.3. Bioaccumulative potential

MPM Brake Fluid DOT 3	
Log Pow	≤ 2
Bioaccumulative potential	No bioaccumulation expected.

2-(2-Butoxyethoxy)ethanol (112-34-5)	
Log Pow	1

### 12.4. Mobility in soil

MPM Brake Fluid DOT 3	
Soil	Soluble in water and will partition to aqueous phase. Volatilisation from water to air not expected.

### 12.5. Results of PBT and vPvB assessment

MPM Brake Fluid DOT 3	
The product does not meet the PBT and vPvB classification criteria	

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Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Butyl Triglycol (143-22-6), Diethylene glycol (111-46-6), Methyl Triglycol Borate (30989-05-0), Butyl Polyglycol (9004-77-7), 2-(2-Butoxyethoxy)ethanol (112-34-5), 2-(2-Methoxyethoxy)ethanol (111-77-3)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Butyl Triglycol (143-22-6), Diethylene glycol (111-46-6), Methyl Triglycol Borate (30989-05-0), Butyl Polyglycol (9004-77-7), 2-(2-Butoxyethoxy)ethanol (112-34-5), 2-(2-Methoxyethoxy)ethanol (111-77-3)

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The product does not contain any substances with endocrine disrupting properties.

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Waste suitable for incineration.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant.  
European List of Waste (LoW, EC 2000/532) : 16 01 13\* - brake fluids

## SECTION 14: Transport information

In accordance with ADR / IMDG

ADR	IMDG
<b>14.1. UN number or ID number</b>	
Not regulated for transport	
<b>14.2. UN proper shipping name</b>	
Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>	
Not regulated	Not regulated
<b>14.4. Packing group</b>	
Not regulated	Not regulated
<b>14.5. Environmental hazards</b>	
Not regulated	Not regulated
No supplementary information available	

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

# MPM Brake Fluid DOT 3

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 15: Regulatory information

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

##### EU-Regulations

###### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

###### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

###### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

###### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

###### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

###### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

###### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

###### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

###### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Supersedes	<b>Modified</b>
	Revision date	<b>Modified</b>
	Adverse health effects caused by endocrine disrupting properties	<b>Added</b>
	PBT Comment	<b>Added</b>
	Acute toxicity (inhalation) - comment	<b>Added</b>
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	<b>Modified</b>
2.2	Precautionary statements (CLP)	<b>Modified</b>
2.2	Hazard statements (CLP)	<b>Modified</b>
8.2	Personal protective equipment	<b>Modified</b>
9.1	Log Pow	<b>Added</b>
9.1	Appearance	<b>Added</b>
9.1	Viscosity, kinematic	<b>Modified</b>

# MPM Brake Fluid DOT 3

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Indication of changes		
Section	Changed item	Comments
9.1	pH	Modified
9.1	Colour	Modified
9.1	Density	Modified
11.1	ATE CLP (dermal)	Modified
11.1	ATE CLP (oral)	Modified
11.1	Other information	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Additional information	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Reason for no classification	Added
11.1	Additional information	Modified
11.1	LD50 oral rat	Modified
11.1	LD50 dermal rabbit	Modified
11.1	Reason for no classification	Added
12.1	LC50 fish 1	Modified
12.3	Log Pow	Added
12.3	Bioaccumulative potential	Modified
12.4	Soil	Added

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
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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.