



Brake Fluid DOT 3

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 4-3-2020 Revision date: 5-5-2021 Supersedes: 9-11-2020 version: 3.5

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

1.1. Product identifier

Trade name : Brake Fluid DOT 3
UFI : QUFE-UR7K-0R1U-EHKY
Product code : 19000

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

MPM International Oil Company
Cyclotronweg 1
2629 HN Delft Delft - Nederland
T +31 (0)15 2514030 - F +31 (0)15 2514031
msds@mpmoil.nl - www.mpmoil.nl

1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

Country	Official advisory body	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)	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

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
Specific target organ toxicity — Single exposure, Category 2 H371
Full text of H 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) :



GHS07

GHS08

CLP Signal word

: Warning

Hazard statements (CLP)

: H319 - Causes serious eye irritation.
H361d - Suspected of damaging the unborn child.
H371 - May cause damage to organs (kidneys) (oral).

Precautionary statements (CLP)

: P280 - Wear protective gloves.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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) 01-2119475107-38	≥ 20 – ≤ 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	≥ 15 – ≤ 24	Acute Tox. 4 (Oral), H302
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	(CAS-No.) 30989-05-0 (EC-No.) 250-418-4 (EC Index-No.) 250-418-4 (REACH-no) 2119462824-33	≥ 5 – ≤ 20	Repr. 2, H361d
Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy- (CAS# 9004-77-7)	(CAS-No.) 9004-77-7 (EC-No.) 500-012-0 (EC Index-No.) 500-012-0 (REACH-no) 2119475115-41-xxxx	≥ 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. 2, H361d

Specific concentration limits:

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) 01-2119475107-38	(20 ≤C < 30) Eye Irrit. 2, H319 (30 ≤C < 100) Eye Dam. 1, H318
Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy- (CAS# 9004-77-7)	(CAS-No.) 9004-77-7 (EC-No.) 500-012-0 (EC Index-No.) 500-012-0 (REACH-no) 2119475115-41-xxxx	(20 ≤C < 100) Eye Irrit. 2, H319

Full text of H-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.

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.

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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.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide.

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.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing and gloves.

6.1.2. For emergency responders

No additional information available

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.

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.

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
Germany	Notes	
Ireland	Local name	Diethylene glycol [2,2'-Oxydiethanol]
Ireland	OEL (8 hours ref) (mg/m ³)	100 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	23 ppm
Ireland	Regulatory reference	Chemical Agents Code of Practice 2020
United Kingdom	Local name	2,2'-Oxydiethanol
United Kingdom	WEL TWA (mg/m ³)	101 mg/m ³
United Kingdom	WEL TWA (ppm)	23 ppm
United Kingdom	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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2-(2-Butoxyethoxy)ethanol (112-34-5)		
EU	Local name	2-(2-Butoxyethoxy)ethanol
EU	IOELV TWA (mg/m³)	67,5 mg/m³
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m³)	101,2 mg/m³
EU	IOELV STEL (ppm)	15 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Germany	Notes	
Ireland	Local name	2-(2-Butoxyethoxy)ethanol
Ireland	OEL (8 hours ref) (mg/m³)	67,5 mg/m³
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	OEL (15 min ref) (mg/m³)	101,2 mg/m³
Ireland	OEL (15 min ref) (ppm)	15 ppm
Ireland	Notes (IE)	IOELV (Indicative Occupational Exposure Limit Values)
Ireland	Regulatory reference	Chemical Agents Code of Practice 2020
United Kingdom	Local name	2-(2-Butoxyethoxy)ethanol
United Kingdom	WEL TWA (mg/m³)	67,5 mg/m³
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m³)	101,2 mg/m³
United Kingdom	WEL STEL (OEL STEL) [ppm]	15 ppm
United Kingdom	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

2-(2-Methoxyethoxy)ethanol (111-77-3)		
EU	Local name	2-(2-Methoxyethoxy)ethanol
EU	IOELV TWA (mg/m³)	50,1 mg/m³
EU	IOELV TWA (ppm)	10 ppm
EU	Notes	Skin
EU	Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Germany	Notes	
Ireland	Local name	2-(2-Methoxyethoxy)ethanol
Ireland	OEL (8 hours ref) (mg/m³)	50,1 mg/m³
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	Notes (IE)	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)
Ireland	Regulatory reference	Chemical Agents Code of Practice 2020
United Kingdom	Local name	2-(2-Methoxyethoxy) ethanol
United Kingdom	WEL TWA (mg/m³)	50,1 mg/m³
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
United Kingdom	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure 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.

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Hand protection:

Wear suitable gloves resistant to chemical penetration

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Butyl rubber, Nitrile rubber (NBR), Natural rubber, Polyvinylchloride (PVC)	6 (> 480 minutes)			EN ISO 374

Eye protection:

Chemical goggles or safety glasses

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

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

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

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

Personal protective equipment symbol(s):



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	: light yellow.
Odour	: slight.
Odour threshold	: No data available
pH	: 7 – 10 SAE J 1703
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: < -50 °C SAE J 1703
Freezing point	: No data available
Boiling point	: > 210 °C SAE J 1703
Flash point	: > 100 °C IP 35
Auto-ignition temperature	: > 300 °C ASTM D 286
Decomposition temperature	: > 300
Flammability (solid, gas)	: > 280 °C
Vapour pressure	: 1 mbar
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1039 g/l DIN 51757
Solubility	: Water: 100 % Ethanol: 100 %
Log Pow	: No data available
Log Kow	: < 2 OECD 117

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Viscosity, kinematic	: 5 – 10 @20C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

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 (NOx), NH3, sulphur compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Additional information	: Data is for major component only

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LD50 oral rat	2630
LD50 dermal rabbit	3540

2-[2-(2-butoxyethoxy)ethoxy] ethanol (143-22-6)

LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	3540 mg/kg bodyweight

Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)

LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy- (CAS# 9004-77-7) (9004-77-7)

LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rabbit	3540 mg/kg bodyweight

2-(2-Butoxyethoxy)ethanol (112-34-5)

LD50 dermal rabbit	2764 mg/kg bodyweight OECD 402
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2-(2-Methoxyethoxy)ethanol (111-77-3)

LD50 dermal rabbit	9404 mg/kg bodyweight OECD 402
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Skin corrosion/irritation	: Not classified pH: 7 – 10 SAE J 1703
Serious eye damage/irritation	: Causes serious eye irritation. pH: 7 – 10 SAE J 1703
Additional information	: Causes eye irritation

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Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Diethylene glycol (111-46-6)

NOAEL (chronic, oral, animal/male, 2 years)	1210 mg/kg bodyweight
NOAEL (chronic, oral, animal/female, 2 years)	1160 mg/kg bodyweight

Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: May cause damage to organs (kidneys) (oral).

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NOAEL (oral, rat)	500 mg/kg bodyweight
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STOT-repeated exposure	: Not classified
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2-[2-(2-butoxyethoxy)ethoxy] ethanol (143-22-6)

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

Diethylene glycol (111-46-6)

LOAEL (oral, rat, 90 days)	40000 mg/kg bodyweight OECD 407
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Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate (30989-05-0)

NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight
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Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy- (CAS# 9004-77-7) (9004-77-7)

LOAEL (oral, rat, 90 days)	1200 mg/kg bodyweight
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight

2-(2-Butoxyethoxy)ethanol (112-34-5)

NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight OECD 408
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2-(2-Methoxyethoxy)ethanol (111-77-3)

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
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Viscosity, kinematic	5 – 10 @20C
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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 (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

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LC50 fish 1	> 96 mg/l @96h (Scophthalmus maximus)
EC50 Daphnia 1	> 3200 mg/l @ 48h
EC50 other aquatic organisms 1	2490 mg/l @ 72h (Selenastrum capricornutum)

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2-[2-(2-butoxyethoxy)ethoxy] ethanol (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

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

Poly(oxy-1,2-ethanediyl), .alpha.-butyl-.omega.-hydroxy- (CAS# 9004-77-7) (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
EC50 Daphnia 1	> 100 mg/l
EC50 96h - Algae [1]	> 100 mg/l

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

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Persistence and degradability	Readily biodegradable.
Biodegradation	76 % @ 28d

12.3. Bioaccumulative potential

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Log Kow	< 2 OECD 117
Bioaccumulative potential	not bioaccumulable.

12.4. Mobility in soil

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Surface tension	0,061 N/m @ 20C
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12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: 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) code	: 16 01 13* - brake fluids

SECTION 14: Transport information

In accordance with ADR / IMDG

ADR	IMDG
14.1. UN number	
Not applicable	Not applicable
14.2. UN proper shipping name	
Not applicable	Not applicable
14.3. Transport hazard class(es)	
Not applicable	Not applicable
14.4. Packing group	
Not applicable	Not applicable
14.5. Environmental hazards	
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No
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 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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	Supersedes	Modified	
	Revision date	Modified	

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 SE 2	Specific target organ toxicity — Single exposure, Category 2
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H371	May cause damage to organs.

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.