



MPM Brake Fluid DOT 5.1+ Low Viscosity

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 24.08.2022 Revision date: 29.03.2023 Supersedes: 17.11.2022 version: 1.1

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 5.1+ Low Viscosity
UFI : 715V-41RC-H005-MCNC
Product code : 21000LV
Type of product : Brake fluids
Product group : Mixture

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

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer

MPM International Oil Company
Cyclotronweg 1
2629 HN Delft - Nederland
T +31 (0)15 2514030
info@mpmoil.com - www.mpmoil.com

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 | +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]

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.

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

CLP Signal word

: Warning

Contains

: Methyl Triglycol Borate

Hazard statements (CLP)

: H361d - Suspected of damaging the unborn child.

Precautionary statements (CLP)

: P280 - Wear protective gloves.

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.

P501 - Dispose of contents/container in accordance with local and national regulations.

P102 - Keep out of reach of children.

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

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 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 at a concentration equal to or greater than 0,1 %

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] |
|----------------------------|--|----------------------|---|
| Methyl Triglycol Borate | CAS-No.: 30989-05-0 EC-No.: 250-418-4 EC Index-No.: 250-418-4 REACH-no: 2119462824-33 | $\geq 30 - \leq 90$ | Repr. 2, H361d |
| Butyl Triglycol | CAS-No.: 143-22-6 EC-No.: 205-592-6 EC Index-No.: 603-183-00-0 REACH-no: 01-2119475107-38 | $\geq 1 - \leq 9,9$ | Eye Dam. 1, H318 |
| Butyl Polyglycol | CAS-No.: 9004-77-7 EC-No.: 500-012-0 EC Index-No.: 500-012-0 REACH-no: 2119475115-41 | $\geq 0 - \leq 5$ | 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 | $\geq 0 - \leq 2,99$ | Repr. 2, H361d |

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| 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 < 30) Eye Irrit. 2, H319 (30 ≤ C < 100) Eye Dam. 1, H318 |
| Butyl Polyglycol | CAS-No.: 9004-77-7 EC-No.: 500-012-0 EC Index-No.: 500-012-0 REACH-no: 2119475115-41 | (20 ≤ C < 100) Eye Irrit. 2, H319 |

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. |

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 CO ₂ . |
|------------------------------|---|

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. |

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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

8.1.1. National occupational exposure and biological limit values

| 2-(2-Methoxyethoxy)ethanol (111-77-3) | |
|--|---------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | 2-(2-Methoxyethoxy)ethanol |
| IOELV TWA (mg/m ³) | 50,1 mg/m ³ |
| Notes | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC |
| Ireland - Occupational Exposure Limits | |
| Local name | 2-(2-Methoxyethoxy)ethanol |
| OEL (8 hours ref) (mg/m ³) | 50,1 mg/m ³ |
| OEL (8 hours ref) (ppm) | 10 ppm |

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| 2-(2-Methoxyethoxy)ethanol (111-77-3) | |
|--|---|
| Regulatory reference | Chemical Agents Code of Practice 2021 |
| United Kingdom - Occupational Exposure Limits | |
| Local name | 2-(2-Methoxyethoxy) ethanol |
| WEL TWA (mg/m ³) | 50,1 mg/m ³ |
| WEL TWA (ppm) | 10 ppm |
| 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) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

8.1.2. Recommended monitoring procedures

No additional information available.

8.1.3. Air contaminants formed

No additional information available.

8.1.4. DNEL and PNEC

No additional information available.

8.1.5. Control banding

No additional information available.

8.2. Exposure controls

8.2.1. 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.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. 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 |

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves resistant to chemical penetration

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| 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 |

8.2.2.3. 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: | |

8.2.2.4. Thermal hazards

No additional information available.

8.2.3. 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 | : Yellow. |
| Appearance | : Clear. |
| Odour | : Slight. |
| Odour threshold | : Not available |
| Melting point | : < -50 °C SAE J 1704 |
| Freezing point | : Not available |
| Boiling point | : > 260 °C SAE J 1704 |
| Flammability | : > 280 °C |
| Explosive properties | : Product is not explosive. |
| Oxidising properties | : No oxidising properties. |
| Explosive limits | : Not available |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : > 120 °C IP 35 |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : > 300 °C |
| pH | : 9,55 (7,6 – 11,5) SAE J 1704 |
| Viscosity, kinematic | : 690 – 750 mm ² /s @20C |
| Solubility | : In water, material soluble. Water: 100 % Ethanol: 100 % |
| Log Kow | : Not available |
| Log Pow | : ≤ 2 |
| Vapour pressure | : 1 mbar |
| Vapour pressure at 50°C | : Not available |
| Density | : 1067 (1020 – 1070) kg/m ³ DIN 51757 |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle size | : Not applicable |
| Particle size distribution | : Not applicable |

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| | |
|--------------------------------|------------------|
| Particle shape | : Not applicable |
| Particle aspect ratio | : Not applicable |
| Particle aggregation state | : Not applicable |
| Particle agglomeration state | : Not applicable |
| Particle specific surface area | : Not applicable |
| Particle dustiness | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available.

9.2.2. Other safety characteristics

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_x), NH₃, 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. |
| 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. |

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|--|---|
| LD50 oral rat | 5000 mg/kg Limited experience indicates that the fatal dose in humans may be lower. |
| LD50 dermal rabbit | 3000 mg/kg |
| Methyl Triglycol Borate (30989-05-0) | |
| LD50 oral rat | > 2000 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg bodyweight |

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| Butyl Triglycol (143-22-6) | |
|---|--|
| LD50 oral rat | > 5000 mg/kg bodyweight |
| LD50 dermal rabbit | 3540 mg/kg bodyweight |
| Butyl Polyglycol (9004-77-7) | |
| LD50 oral rat | > 2000 mg/kg bodyweight |
| LD50 dermal rabbit | 3540 mg/kg bodyweight |
| ATE CLP (dermal) | 3540 mg/kg bodyweight |
| 2-(2-Methoxyethoxy)ethanol (111-77-3) | |
| 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: 9,55 (7,6 – 11,5) SAE J 1704 |
| Additional information | : However, prolonged or repeated exposure can degrease the skin and lead to dermatitis. |
| Serious eye damage/irritation | : Not classified pH: 9,55 (7,6 – 11,5) SAE J 1704 |
| Additional information | : Causes eye irritation |
| 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.) |
| Reproductive toxicity | : Suspected of damaging the unborn child. |
| STOT-single exposure | : Not classified. (Based on available data, the classification criteria are not met.) |
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| NOAEL (oral, rat) | 500 mg/kg bodyweight |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met.) |
| Methyl Triglycol Borate (30989-05-0) | |
| NOAEL (oral, rat, 90 days) | ≥ 1000 mg/kg bodyweight |
| Butyl Triglycol (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 |
| Butyl Polyglycol (9004-77-7) | |
| LOAEL (oral, rat, 90 days) | 1200 mg/kg bodyweight |
| NOAEL (oral, rat, 90 days) | 400 mg/kg bodyweight |
| 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 |
| MPM Brake Fluid DOT 5.1+ Low Viscosity | |
| Viscosity, kinematic | 690 – 750 mm ² /s @20C |

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11.2. Information on other hazards

11.2.1. 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

11.2.2. 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 (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

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| | |
|-------------|---------------------------------------|
| LC50 fish 1 | > 100 mg/l @96h (Oncorhynchus Mykiss) |
|-------------|---------------------------------------|

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 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 |

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-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 |

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12.2. Persistence and degradability

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| | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
|-------------------------------|------------------------|

12.3. Bioaccumulative potential

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| | |
|---------------------------|------------------------------|
| Log Pow | ≤ 2 |
| Bioaccumulative potential | No bioaccumulation expected. |

12.4. Mobility in soil

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| | |
|------|--|
| 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

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The product does not meet the PBT and vPvB classification criteria

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 2150/2002) | : 16 01 13* - brake fluids |

SECTION 14: Transport information

In accordance with ADR / IMDG

14.1. UN number or ID number

| | |
|---------------|-----------------|
| UN-No. | : Not regulated |
| UN-No. (IMDG) | : Not regulated |

14.2. UN proper shipping name

| | |
|-----------------------------|-----------------|
| Proper Shipping Name (ADR) | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |

14.3. Transport hazard class(es)

| | |
|----------------------------------|-----------------|
| ADR | |
| Transport hazard class(es) (ADR) | : Not regulated |

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IMDG

Transport hazard class(es) (IMDG) : Not regulated

14.4. Packing group

Packing group (ADR) : Not regulated

Packing group (IMDG) : Not regulated

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

Not regulated

Transport by sea

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

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 substance(s) listed on REACH Annex XVII (Restriction Conditions)

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

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

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

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

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

| | |
|--------------|---|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H361d | Suspected of damaging the unborn child |
| Repr. 2 | Reproductive toxicity, Category 2 |

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.