



MPM Antifreeze Premium Longlife G13 Concentrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 02.02.2012 Revision date: 22.06.2023 Supersedes: 07.10.2022 version: 5.0

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

1.1. Product identifier

Product form : Mixture
Trade name : MPM Antifreeze Premium Longlife G13 Concentrate
UFI : 82JQ-1GHQ-Y20T-0RSG
Product code : 87000AVAG
Type of product : Anti-freezing agents
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
Industrial/Professional use spec : Non-dispersive use
Used in closed systems
Use of the substance/mixture : Anti-freezing agents
Function or use category : Anti-freezing agents

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 H361
Specific target organ toxicity – Repeated exposure, Category 2 H373
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) :



GHS07

GHS08

CLP Signal word :

Warning

Contains :

1,2 ethanediol

Hazard statements (CLP) :

H302 - Harmful if swallowed.

H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Precautionary statements (CLP) :

P260 - Do not breathe vapours, mist.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 - Rinse mouth.

P102 - Keep out of reach of children.

2.3. Other hazards

Not determined.

Not determined.

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] |
|-------------------------|--|-----------------------|--|
| 1,2 ethanediol | CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816-28 | $\geq 80 - \leq 95$ | Acute Tox. 4 (Oral), H302 STOT RE 2, H373 |
| Disodium sebacate | CAS-No.: 17265-14-4 EC-No.: 241-300-3 REACH-no: 01-2120762063-61 | $\geq 2,5 - < 5$ | Eye Irrit. 2, H319 |
| Methyl-1H-benzotriazole | CAS-No.: 29385-43-1 EC-No.: 249-596-6 REACH-no: 01-2119979081-35 | $\geq 0,1 - \leq 0,5$ | Acute Tox. 4 (Oral), H302 Repr. 2, H361d Aquatic Chronic 2, H411 |

Comments :

Contains a small amount of Bitrex (> 25 ppm), also known as Denatonium Benzoate. More information under section 11.

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

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|--------------------|---|
| General | : Remove the victim away from contaminated area. If unconscious, place in the recovery position and seek medical advice. |
| After inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| After skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. |
| After eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophtalmologist if irritation persists. |
| After ingestion | : Do NOT induce vomiting. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Get immediate medical advice/attention. |

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

| | |
|--------------------|---|
| After inhalation | : Harmful if inhaled. |
| After skin contact | : May cause skin irritation / dermatitis. |
| After eye contact | : Causes eye irritation. |
| After ingestion | : Harmful if swallowed. |

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

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Water spray, powder, foam and CO2. Fight larger fires with water spray or alcohol resistant foam. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Fire hazard | : On exposure to high temperature, may decompose, releasing toxic vapours. |
| Hazardous decomposition products in case of fire | : Carbon monoxide (CO). Carbon dioxide (CO2). Nitrogen oxides (NOx). |

5.3. Advice for firefighters

| | |
|-----------------------------|--|
| Precautionary measures fire | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Other information | : Cool containers / tanks with spray water if possible. Use a water spray to cool exposed surfaces and to protect fire-fighters. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|--|
| General measures | : Ventilate well. Use protective clothing. 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 eye/face protection. |
|----------------------|--|

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Wear suitable protective clothing and eye/face protection. Breathing apparatus. |
|----------------------|---|

6.2. Environmental precautions

Dilute with plenty of water. Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
- Other information : Provide adequate ventilation.

6.4. Reference to other sections

Information on safe handling - see Section 7. Information on personal protective equipment - see Chapter 8. Information on disposal - see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Provide local exhaust or general room ventilation. Avoid aerosol formation.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ensure adequate ventilation, especially in confined areas. Store in tightly closed, leak-proof containers. Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Keep container tightly closed.
- Incompatible products : Strong bases. Oxidizing agent.
- Information on mixed storage : Keep in a cool, well-ventilated place away from acids.
- Storage area : Keep in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs.
- Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible materials.

7.3. Specific end use(s)

Anti-freezing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

| MPM Antifreeze Premium Longlife G13 Concentrate | |
|---|-----------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOELV TWA (mg/m ³) | 52 mg/m ³ Aërosol |
| IOELV TWA (ppm) | 20 ppm Aërosol |
| IOELV STEL (ppm) | 20 ppm Aërosol |
| 1,2 ethanediol (107-21-1) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| IOELV TWA (mg/m ³) | 52 mg/m ³ |
| IOELV TWA (ppm) | 20 ppm |
| EU - Binding Occupational Exposure Limit (BOEL) | |
| BOEL TWA | 104 mg/m ³ TGG 15 min. |
| BOEL TWA [ppm] | 40 ppm |

8.1.2. Recommended monitoring procedures

No additional information available.

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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.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Protective goggles.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

No special eye protection equipment recommended under normal conditions of use. Eye protection should only be necessary where hot liquid could be splashed or sprayed

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Hand protection:

protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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. Avoid contact with skin.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|--|
| Physical state | : Liquid |
| Colour | : Pink. |
| Appearance | : Hygroscopic. |
| Odour | : Slight. |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not determined. |
| Boiling point | : > 197 °C @ (CAS: 107-21-1, ethaandiol; ethyleenglycol) |

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| | |
|---------------------------------|---|
| Flammability | : Not available |
| Explosive limits | : Not available |
| Lower explosion limit | : 3 vol % |
| Upper explosion limit | : 28 vol % |
| Flash point | : 111 °C @ (CAS: 107-21-1, ethaandiol; ethyleenglycol) |
| Auto-ignition temperature | : 398 °C @ (CAS: 107-21-1, ethaandiol; ethyleenglycol) |
| Decomposition temperature | : Not available |
| pH | : Not available |
| Viscosity, kinematic | : Not determined. |
| Solubility | : In water, material soluble. |
| Log Kow | : Not available |
| Vapour pressure | : 0,1 hPa(a) @ 25°C (CAS: 107-21-1, ethaandiol; ethyleenglycol) |
| Vapour pressure at 50°C | : Not available |
| Density | : ≈ 1125 kg/m ³ |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle size | : Not determined. |
| Particle size distribution | : Not applicable |
| 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

Miscibility : water,acetone,alcohol

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No additional information available.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Contact with incompatible materials.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

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

| | |
|-------------------------|--|
| Acute toxicity (oral) | : Not classified. |
| Acute toxicity (dermal) | : Not classified (Based on available data, the classification criteria are not met.) |

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Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met.)

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| | |
|----------------|--------------------------|
| ATE CLP (oral) | 526,316 mg/kg bodyweight |
|----------------|--------------------------|

1,2 ethanediol (107-21-1)

| | |
|-------------|----------------------|
| LD50 dermal | > 3500 mg/kg (Mouse) |
|-------------|----------------------|

| | |
|-----------------------|---------------|
| LC50 Inhalation - Rat | > 2,5 mg/l 6h |
|-----------------------|---------------|

Disodium sebacate (17265-14-4)

| | |
|---------------|--|
| LD50 oral rat | > 5000 mg/kg bodyweight @ OECD Guideline 401 |
|---------------|--|

| | |
|-----------------|--|
| LD50 dermal rat | > 2000 mg/kg bodyweight @ OECD Guideline 402 |
|-----------------|--|

Methyl-1H-benzotriazole (29385-43-1)

| | |
|----------------|----------------------|
| ATE CLP (oral) | 500 mg/kg bodyweight |
|----------------|----------------------|

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.)
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 fertility or the unborn child. (Based on available data, the classification criteria are not met.)
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met.)
STOT-repeated exposure : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

1,2 ethanediol (107-21-1)

| | |
|------------------------|--|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--|

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)

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| | |
|----------------------|-----------------|
| Viscosity, kinematic | Not determined. |
|----------------------|-----------------|

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : 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 %

11.2.2. Other information

Other information : The mixture contains a small amount of Bitrex, which is a bittering agent and is a general description of chemical additives that are added to dangerous products to give it a bitter taste, which creates a strong aversion and as such prevents accidental poisonings for young people in particular children and pets. There are a number of possible chemicals that can be used, but the best known is the Denatonium benzoate (CAS 3734-33-6).

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met.)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met.)

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| 1,2 ethanediol (107-21-1) | |
|----------------------------------|---|
| LC50 fish 1 | 72860 mg/l @96h Dikkop witvis (Pimephales promelas) |
| EC50 Daphnia 1 | > 100 mg/l OECD 202 (Daphnia magna) |
| EC50 96h - Algae [1] | 6500 – 13000 mg/l (EPA 600/9-78-018) |
| NOEC (chronic) | ≥ 1000 mg/l Mysidopsis bahia (Duration: 23 d) |
| NOEC chronic fish | 15380 mg/l (EPA EPA 600/4-89/001 (7d), Pimephales promelas) semi-static |
| NOEC chronic crustacea | 8590 mg/l (EPA 600/4-89/001, Ceriodaphnia dubia) |

| Disodium sebacate (17265-14-4) | |
|---------------------------------------|--|
| LC50 fish 1 | > 100 mg/l @ EOCD Guideline 203, Danio rerio |
| EC50 Daphnia 1 | > 100 mg/l @ OECD Guideline 202, Daphnia magna |
| NOEC chronic algae | 3 mg/l @ ISO 10253, Skeletonma costatum |

| Methyl-1H-benzotriazole (29385-43-1) | |
|---|---|
| LC50 fish 1 | 25,5 mg/l (Pimephales promelas) |
| LC50 fish 2 | 65 mg/l (Brachydanio rerio) |
| EC50 Daphnia 1 | 87,4 mg/l (Daphnia magna) |
| EC50 Daphnia 2 | 8,58 mg/l (Daphnia magna) |
| EC50 72h - Algae [1] | 62 mg/l (Selenastrum capricornutum) |
| ErC50 (algae) | 75 mg/l @ OECD Guideline 201, Pseudokirchneriella subcapitata |
| NOEC chronic crustacea | 184 mg/l @21DY (Daphnia magna) |

12.2. Persistence and degradability

| MPM Antifreeze Premium Longlife G13 Concentrate | |
|--|------------------------|
| Persistence and degradability | Readily biodegradable. |

| 1,2 ethanediol (107-21-1) | |
|----------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |

| Disodium sebacate (17265-14-4) | |
|---------------------------------------|--------------------------------|
| Biodegradation | 89 % @ 28d, OECD Guideline 306 |

12.3. Bioaccumulative potential

| MPM Antifreeze Premium Longlife G13 Concentrate | |
|--|------------------------------------|
| Bioaccumulative potential | No relevant information available. |

| 1,2 ethanediol (107-21-1) | |
|----------------------------------|-------|
| Log Pow | -1,36 |

| Disodium sebacate (17265-14-4) | |
|---------------------------------------|---|
| Log Pow | -4,9 @ (20 °C, 7,8pH, OECD Guideline 105) |

| Methyl-1H-benzotriazole (29385-43-1) | |
|---|------|
| Log Kow | 1,71 |

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12.4. Mobility in soil

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| | |
|------|-----------------------------------|
| Soil | Prevent soil and water pollution. |
|------|-----------------------------------|

Disodium sebacate (17265-14-4)

| | |
|---------|--------------------|
| Log Koc | 2,429 @ 25°C, QSAR |
|---------|--------------------|

12.5. Results of PBT and vPvB assessment

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Not determined.

Not determined.

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

Other adverse effects : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Comply with local regulations for disposal.
Additional information : This material and its container must be disposed of in a safe way, and as per local legislation.
European List of Waste (LoW, EC 2150/2002) : 16 01 14* - antifreeze fluids containing dangerous substances

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

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

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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

Indication of changes

| Section | Changed item | Change | Comments |
|---------|--|----------|----------|
| | Supersedes | Modified | |
| | Revision date | Modified | |
| 3 | Composition/information on ingredients | Modified | |
| 9.1 | Vapour pressure | Added | |
| 9.1 | Flash point | Modified | |
| 9.1 | Freezing point | Modified | |
| 9.1 | Auto-ignition temperature | Modified | |
| 9.1 | Density | Modified | |
| 9.1 | Boiling point | Modified | |
| 9.1 | Colour | Modified | |
| 11.1 | Other information | Added | |
| 11.1 | ATE CLP (oral) | Added | |

Full text of H- and EUH-statements

| | |
|---------------------|-----------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
|---------------------|-----------------------------------|

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Full text of H- and EUH-statements

| | |
|-------------------|--|
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361d | Suspected of damaging the unborn child |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, 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.