



MPM Chain Spray Aerosol

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 25-11-2020 Revision date: 25-7-2024 Supersedes: 24-3-2023 version: 39.0

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

1.1. Product identifier

Product form : Mixture
Trade name : MPM Chain Spray Aerosol
Product code : A202
Type of product : Aerosol.
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, Consumer use
Use of the substance/mixture : Automotive care products

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 BV
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	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)	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+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]

Aerosol, Category 1 H222;H229
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

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Adverse physicochemical, human health and environmental effects

Harmful: may cause lung damage if swallowed.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS07

CLP Signal word

: Danger.

Contains

: Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.

P210 - Keep away from heat, hot surfaces, sparks, open flames. - No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P261 - Avoid breathing vapours, spray, gas.

P280 - Wear protective gloves, face protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

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

2.3. Other hazards

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

Component	
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, 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 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 %

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]
butane	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0 REACH-no: 01-2119474691-32	$\geq 10 - \leq 20$	Flam. Gas 1A, H220 Press. Gas (Comp.), H280

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
isobutane	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0 REACH-no: 01-2119485395-27	≥ 5 – ≤ 10	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	EC-No.: 927-510-4 EC Index-No.: 01-2119475515-33-xxxx	≥ 5 – ≤ 10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Sulfone-acids, alkane-, sodiumsalts	CAS-No.: 68608-26-4 EC-No.: 271-781-5	≥ 1 – ≤ 2,5	Eye Irrit. 2, H319
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	CAS-No.: 1471316-72-9 EC-No.: 939-603-7	≥ 1 – ≤ 2,5	Skin Sens. 1B, H317
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	CAS-No.: 72623-87-1 EC-No.: 276-738-4 EC Index-No.: 649-483-00-5 REACH-no: 01-2119474889-13	≥ 0,1 – ≤ 0,3	Asp. Tox. 1, H304
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil base oil - unspecified	CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878-16	≥ 0,1 – ≤ 0,3	Asp. Tox. 1, H304
Distillates, petroleum, solvent-refined heavy naphthenic.	CAS-No.: 64741-96-4 EC-No.: 265-097-6 EC Index-No.: 649-457-00-3 REACH-no: 01-2119483621-38	≥ 0,1 – ≤ 0,3	Not classified

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

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation	: Take victim to fresh air, in a quiet place and if necessary take medical advice.
After skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
After eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
After ingestion	: Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects	: Shortage of breath. Headache. May be narcotic. Blackout. Nausea. Cough.
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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

- | | |
|--------------------------------|---|
| Suitable extinguishing media | : Foam. Carbon dioxide. Dry powder. Making extinguishing agents environment-friendly. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

- | | |
|------------------|--|
| Fire hazard | : May form flammable/explosive vapour-air mixture. |
| Explosion hazard | : Containers could explode in heat of fire. Vapours may form explosive mixture with air. |

5.3. Advice for firefighters

- | | |
|--------------------------------|---|
| Protection during firefighting | : Self-contained breathing apparatus with an air line. |
| Other information | : Cool containers / tanks with spray water if possible. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- | | |
|------------------|---|
| General measures | : Keep unprotected persons away. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|------------------|---|

6.1.1. For non-emergency personnel

- | | |
|----------------------------------|---|
| Protective equipment | : Wear suitable protective clothing and eye/face protection. Wear respiratory protection. |
| Emergency procedures | : Evacuate area. |
| Measures in case of dust release | : Provide adequate ventilation. |

6.1.2. For emergency responders

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

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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. Clean with the help of detergents. |
| Other information | : Ensure 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

- | | |
|-----------------------------------|---|
| Additional hazards when processed | : Avoid all eye and skin contact and do not breathe vapour and mist. Do not pierce or burn, even after use. |
| Precautions for safe handling | : Provide good ventilation in process area to prevent formation of vapour. |
| Handling temperature | : 20 |
| 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 | : Store in a closed container. Ensure adequate ventilation, especially in confined areas. |
| Storage conditions | : Keep in fireproof place. |
| Maximum storage period | : 1 year |

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Storage temperature	: 40 °C
Heat and ignition sources	: Protect from heat and direct sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Information on mixed storage	: Observe official regulations on storing packagings with pressurized containers.
Storage area	: Keep in a cool, well-ventilated place. Store according to local legislation.
Special rules on packaging	: Keep only in original container.
Packaging materials	: Store always product in container of same material as original container.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

butane (106-97-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOELV TWA (mg/m³)	1430 mg/m³
IOELV TWA (ppm)	600 ppm

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:

See chapter 7. No additional measures necessary.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety goggles

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing, gloves and eye/face protection

Hand protection:

Wear suitable gloves resistant to chemical penetration

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Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	5 (> 240 minutes)	>0,45		EN ISO 374

Other skin protection

Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

8.2.2.3. Respiratory protection

Respiratory protection:

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

8.2.2.4. Thermal hazards

Thermal hazard protection:

No additional information available.

8.2.3. Environmental exposure controls

Consumer exposure controls:

Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing. Wash hands before work breaks and after finishing work. Avoid contact with skin and eyes.

Other information:

The product does not contain any relevant quantities of substances that have to be monitored in terms of limit values at the workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Colour	: Yellow.
Appearance	: Aerosol can.
Odour	: Aromatic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: Vapour could form explosive mixture with air.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: > 200 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Insoluble in water. Organic solvent:52,8 %
Log Kow	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: > 650 – < 700 kg/m³ @ 20°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable

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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

Other properties : Extremely flammable aerosol, Pressurised container: May burst if heated.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Aldehydes.

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) : May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged contact with the skin can cause allergic reactions in sensitive individuals. (based on components).***
Acute toxicity (inhalation) : May be fatal if vapour inhaled.

butane (106-97-8)	
LC50 Inhalation - Rat (Vapours)	658 mg/l/4h
ATE CLP (vapours)	658 mg/l/4h
isobutane (75-28-5)	
LC50 Inhalation - Rat (Vapours)	> 50 mg/l/4h
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
LD50 oral rat	> 5840 mg/kg
LD50 dermal rat	> 2920 mg/kg
LC50 Inhalation - Rat	> 23,3 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Vapours)	> 23,3 mg/l/4h

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Sulfone-acids, alkane-, sodiumsalts (68608-26-4)	
LD50 oral rat	> 5000 mg/kg
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts (1471316-72-9)	
LD50 oral rat	10000 – 20000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight OECD 402
LC50 Inhalation - Rat	> 1,9 mg/l/4h Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity)
ATE CLP (oral)	10000 mg/kg bodyweight
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	
LD50 oral rat	> 5000 mg/kg bodyweight OECD 401
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil base oil - unspecified (72623-86-0)	
LD50 oral rat	> 5000 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	: May cause an allergic skin reaction.
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	: Not classified (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.)
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met.)
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
LOAEC (inhalation, rat, vapour, 90 days)	16,6 mg/l air
NOAEC (inhalation, rat, vapour, 90 days)	3,3 mg/l air
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts (1471316-72-9)	
NOAEL (oral, rat, 90 days)	> 500 mg/kg bodyweight
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight OECD 410 (@21/28 Day)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil base oil - unspecified (72623-86-0)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met.)
11.2. Information on other hazards	
No additional information available	
SECTION 12: Ecological information	
12.1. Toxicity	
General	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met.) (Based on available data, the classification criteria are not met.)
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
LC50 fish 1	14,3 mg/l

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Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
EC50 Daphnia 1	3 mg/l 48h
EC50 Daphnia 2	0,23 mg/l 21d
EC50 72h - Algae [1]	10 – 30 mg/l
LOEC (chronic)	0,32 mg/l
NOEC (chronic)	0,17 mg/l Daphnia Magna 21d
NOEC chronic fish	1534 mg/l 28d
NOEC chronic algae	0,1 mg/l 72h

12.2. Persistence and degradability

MPM Chain Spray Aerosol	
Persistence and degradability	Based on available data, the classification criteria are not met.
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
Persistence and degradability	Biodegradation in water. Readily biodegradable. 81-98 % % biodegradation (O2 consumption),28d.

12.3. Bioaccumulative potential

MPM Chain Spray Aerosol	
Bioaccumulative potential	Based on available data, the classification criteria are not met.
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
Bioaccumulative potential	No data available.
Sulfone-acids, alkane-. sodiumsalts (68608-26-4)	
Log Pow	41,63
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	
Bioaccumulative potential	highly bioaccumulative.

12.4. Mobility in soil

MPM Chain Spray Aerosol	
Soil	No additional information available.
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	
Soil	No data available.

12.5. Results of PBT and vPvB assessment

Component	
Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Do not dispose of with domestic waste.
Waste disposal recommendations	: Remove to an authorized waste treatment plant.
Waste materials	: Conform to current legislation, regulations and orders.
European List of Waste (LoW, EC 2000/532)	: 15 01 04 - metallic packaging 16 05 04* - gases in pressure containers (including halons) containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG

14.1. UN number or ID number

UN-No.	: UN 1950
UN-No. (IMDG)	: UN 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: AEROSOLS
Proper Shipping Name (IMDG)	: AEROSOLS
Transport document description (ADR)	: UN 1950 AEROSOLS, 2.1, (D)
Transport document description (IMDG)	: UN 1950 AEROSOLS, 2.1

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 2.1
Danger labels (UN)	: 2.1



IMDG

Transport hazard class(es) (IMDG)	: 2.1
Danger labels (IMDG)	: 2.1



14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable

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

Classification code (ADR)	: 5F
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Limited quantities (ADR) : 1I
Transport category (ADR) : 2
Tunnel restriction code (ADR) : D

Transport by sea

Limited quantities (IMDG) : SP277
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U
Stowage and handling (IMDG) : SW1, SW22
Segregation (IMDG) : SG69

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 chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes

Section	Changed item	Change	Comments
	Adverse health effects caused by endocrine disrupting properties	Removed	
	Vaporizer	Removed	
	Acute toxicity (dermal) - comment	Added	
	Acute toxicity (inhalation) - comment	Added	
	Reason for no classification	Added	
	Revision date	Modified	
	Supersedes	Modified	
	Segregation (IMDG)	Added	
	Stowage and handling (IMDG)	Added	
	Danger labels (ADN)	Added	
	Danger labels (ICAO)	Added	
1.1	UFI on SDS 1.1	Added	
1.2	Main use category	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	

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Indication of changes			
Section	Changed item	Change	Comments
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.1	After ingestion	Modified	
4.2	Symptoms/effects	Modified	
4.3	Treatment	Added	
5.1	Suitable extinguishing media	Modified	
5.2	Fire hazard	Modified	
5.2	Explosion hazard	Modified	
5.3	Other information	Modified	
6.1	Measures in case of dust release	Added	
6.1	Emergency procedures	Modified	
6.1	General measures	Modified	
6.2	Environmental precautions	Modified	
6.3	Other information	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Additional hazards when processed	Added	
7.1	Handling temperature	Added	
7.1	Precautions for safe handling	Modified	
7.2	Heat and ignition sources	Added	
7.2	Storage temperature	Added	
7.2	Maximum storage period	Added	
7.2	Special rules on packaging	Added	
7.2	Packaging materials	Added	
7.2	Technical measures	Modified	
7.2	Storage conditions	Modified	
7.2	Storage area	Modified	
7.3	Specific end uses	Added	
8.2	Thermal hazard protection	Added	
8.2	Consumer exposure controls	Added	
8.2	Technical measures	Added	
8.2	Other information	Modified	
8.2	Respiratory protection	Modified	
8.2	Personal protective equipment	Modified	
8.2	Eye protection	Modified	
9.1	Density	Modified	
9.2	VOC content	Removed	
9.2	Other properties	Modified	
10.1	Reactivity	Added	

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Indication of changes			
Section	Changed item	Change	Comments
10.2	Chemical stability	Modified	
10.4	Conditions to avoid	Modified	
10.5	Incompatible materials	Added	
10.6	Hazardous decomposition products	Modified	
11.1	Potential adverse human health effects and symptoms	Removed	
11.1	Additional information	Removed	
12.1	General	Modified	
12.1	Ecology - water	Removed	
12.2	Persistence and degradability	Added	
12.3	Bioaccumulative potential	Added	
12.4	Soil	Added	
13.1	Regional legislation (waste)	Added	
14.1	UN-No. (ADN)	Added	
14.1	UN-No. (ICAO)	Added	
15.1	VOC content	Removed	
16	Data sources	Added	
16	Abbreviations and acronyms	Added	
16	Training advice	Added	
16	Other information	Added	

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
ED	Endocrine disrupting properties
EC-No.	European Community number
vPvB	Very Persistent and Very Bioaccumulative
SDS	Safety Data Sheet
TRGS	Technical Rules for Hazardous Substances

MPM Chain Spray Aerosol

Safety Data Sheet

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

Abbreviations and acronyms	
TLM	Median Tolerance Limit
ThOD	Theoretical oxygen demand (ThOD)
STP	Sewage treatment plant
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
PBT	Persistent Bioaccumulative Toxic
OEL	Occupational Exposure Limit
OECD	Organisation for Economic Co-operation and Development
NOEC	No-Observed Effect Concentration
NOAEC	No-Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LD50	Median lethal dose
N.O.S.	Not Otherwise Specified
NOAEL	No-Observed Adverse Effect Level
LC50	Median lethal concentration
IOELV	Indicative Occupational Exposure Limit Value
IATA	International Air Transport Association
IARC	International Agency for Research on Cancer
IMDG	International Maritime Dangerous Goods
EN	European Standard

Data sources	: Supplier's safety documents. ECHA (European Chemicals Agency).
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other information	: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of H- and EUH-statements	
Aerosol 1	Aerosol, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
H220	Extremely flammable gas.

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Full text of H- and EUH-statements	
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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.