



# MPM Thinner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Issue date: 5-4-2011 Revision date: 16-12-2022 Supersedes: 4-7-2016 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 Thinner  
Product code : 77000  
Type of product : Solvents  
Product group : Trade product

#### 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  
Use of the substance/mixture : Solvents  
Function or use category : Solvents

##### 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 - Nederland  
T +31 (0)15 2514030  
[info@mpmoil.nl](mailto:info@mpmoil.nl) - [www.mpmoil.com](http://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 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]

Flammable liquids, Category 2 H225  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 1 H318  
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336  
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation H335  
Specific target organ toxicity – Repeated exposure, Category 2 H373  
Aspiration hazard, Category 1 H304  
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) :



GHS02

GHS05

GHS07

GHS08

CLP Signal word : Danger.

# MPM Thinner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Hazardous ingredients	: acetone, propan-2-one, propanone.; n-butyl acetate; butan-1-ol; n-butanol; Reaction mass of ethylbenzene and xylene
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs (nervous system, kidneys, liver) through prolonged or repeated exposure (inhalation).
Precautionary statements (CLP)	: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 - Get medical advice/attention if you feel unwell. P501 - Dispose of contents/container in accordance with local and national regulations.

### 2.3. Other hazards

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]
Reaction mass of ethylbenzene and xylene	(EC-No.) 905-588-0 (REACH-no) 01-2119488216-32	≥ 50 – ≤ 75	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400
acetone, propan-2-one, propanone.	(CAS-No.) 67-64-1 (EC-No.) 200-662-2 (EC Index-No.) 606-001-00-8 (REACH-no) 01-2119471330-49	≥ 25 – ≤ 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
n-butyl acetate	(CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1	≥ 10 – ≤ 20	Flam. Liq. 3, H226 STOT SE 3, H336
butan-1-ol; n-butanol	(CAS-No.) 71-36-3 (EC-No.) 200-751-6 (EC Index-No.) 603-004-00-6	≥ 3 – ≤ 10	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336
toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3	≤ 0,5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General : Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

# MPM Thinner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

After inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration. In all cases of doubt, or when symptoms persist, seek medical attention.
After skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
After eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Consult an ophthalmologist if irritation persists.
After ingestion	: Immediately call a POISON CENTER/doctor.

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

After inhalation	: May cause drowsiness or dizziness.
After skin contact	: May cause irritation to skin.
After eye contact	: May cause severe 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	: Powder, alcohol-resistant foam, water spray, carbon dioxide. Water spray, powder, foam and CO <sub>2</sub> .
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: In use, may form flammable/explosive vapour-air mixture.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

### 5.3. Advice for firefighters

Precautionary measures fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Firefighting instructions	: Do not use water jet.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.

## SECTION 6: Accidental release measures

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

General measures	: Stop leak if safe to do so. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Keep public away.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing and eye/face protection.
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#### 6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing and eye/face protection. Wear respiratory protection.
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### 6.2. Environmental precautions

Do not flush into surface water or sewer system. Do not allow to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up	: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.
Other information	: Ensure adequate ventilation.

### 6.4. Reference to other sections

No additional information available.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Ensure good ventilation of the work station.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store in original container.

### 7.3. Specific end use(s)

No additional information available.

# MPM Thinner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### acetone, propan-2-one, propanone. (67-64-1)

EU	IOELV TWA (mg/m <sup>3</sup> )	1210 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	502 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	2420 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	1004 ppm
Germany	Notes	

#### 8.2. Exposure controls

##### Technical measures:

Ensure adequate ventilation, especially in confined areas. Do not breathe gas/vapour/aerosol.

##### Personal protective equipment:

Gloves. Safety glasses.

##### Materials for protective clothing:

Impermeable clothing

##### Hand protection:

protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Viton® II, Nitrile rubber (NBR)	6 (> 480 minutes)	> 0.7 mm		EN ISO 374, EN ISO 374-1

##### Eye protection:

Safety glasses

##### Skin and body protection:

Wear suitable protective clothing. Impermeable clothing

##### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

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



##### Other information:

The usual precautions for handling chemicals should be observed. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. 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	: Clear.
Odour	: Irritating.
Odour threshold	: No data available.
pH	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: 56 (55,8 – 56,6) °C
Flash point	: 8 °C
Auto-ignition temperature	: The product does not self-ignite.
Decomposition temperature	: 340 °C
Flammability (solid, gas)	: Highly flammable liquid and vapour.
Vapour pressure	: 233 hPa @ 20 °C

# MPM Thinner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Relative vapour density at 20°C	: No data available.
Relative density	: No data available.
Density	: 850 kg/m <sup>3</sup>
Solubility	: Water: Slightly soluble. Organic solvent: 100 %
Log Pow	: No data available.
Viscosity, kinematic	: 1,176 mm <sup>2</sup> /s
Viscosity, dynamic	: 1 mPa.s
Explosive properties	: Product is not explosive. Flammable or explosive vapour/air mixtures may be formed.
Oxidising properties	: No data available.
Explosive limits	: 1,1 – 13 vol %

### 9.2. Other information

VOC content : 100 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids.

### 10.4. Conditions to avoid

No naked flames, sparks, and do not smoke. High temperature. Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

### 10.5. Incompatible materials

Amines. Peroxides. Chlorinated emulsions. Alkanolamines. Alkali and alkaline earth metals. Ammonium nitrate.

### 10.6. Hazardous decomposition products

No additional information available.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

#### MPM Thinner

LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	2000 mg/kg

#### Reaction mass of ethylbenzene and xylene

LD50 oral rat	3523 mg/kg
LD50 dermal rabbit	12126 mg/kg

#### acetone, propan-2-one, propanone. (67-64-1)

LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	7400 mg/kg
LC50 Inhalation - Rat	76 mg/l air
LC50 Inhalation - Rat (Vapours)	76 mg/l/4h

#### n-butyl acetate (123-86-4)

LD50 oral rat	10760 mg/kg (OECD 423 method)
LD50 dermal rabbit	> 14112 mg/kg (OECD 402 method)
LC50 Inhalation - Rat (Dust/Mist)	23,4 mg/l/4h (OECD 403 method)

#### butan-1-ol; n-butanol (71-36-3)

LD50 oral rat	2292 mg/kg (OECD 401 method)
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# MPM Thinner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

LD50 dermal rat	3430 mg/kg (OECD 402 method)
LC50 Inhalation - Rat (Vapours)	> 17,76 mg/l/4h

### toluene (108-88-3)

LD50 oral rat	5580 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Vapours)	28,1 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
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	: Not classified (Based on available data, the classification criteria are not met.)

### acetone, propan-2-one, propanone. (67-64-1)

LOAEL (animal/female, F0/P)	11298 mg/kg bodyweight
NOAEL (animal/male, F0/P)	900 mg/kg bodyweight

STOT-single exposure	: May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs (nervous system, kidneys, liver) through prolonged or repeated exposure (inhalation).
Aspiration hazard	: May be fatal if swallowed and enters airways.

### MPM Thinner

Viscosity, kinematic	1,176 mm <sup>2</sup> /s
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## SECTION 12: Ecological information

### 12.1. Toxicity

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

### Reaction mass of ethylbenzene and xylene

LC50 fish 1	2,6 mg/l <i>Oncorhynchus mykiss</i>
EC50 Daphnia 1	1 mg/l

### acetone, propan-2-one, propanone. (67-64-1)

EC50 Daphnia 1	8800 mg/l 48h
LOEC (chronic)	> 79 mg/l <i>Daphnia Magna</i> 21d
NOEC (chronic)	≥ 79 mg/l <i>Daphnia Magna</i> 21d

### 12.2. Persistence and degradability

No additional information available.

### 12.3. Bioaccumulative potential

### Reaction mass of ethylbenzene and xylene

BCF fish 1	25,9 mg/l
Log Pow	< 3,2

### 12.4. Mobility in soil

No additional information available.

### 12.5. Results of PBT and vPvB assessment

No additional information available.

### 12.6. Other adverse effects

No additional information available.

# MPM Thinner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste disposal recommendations	: Avoid release to the environment.
Waste materials	: Waste disposal according to official state regulations.
European List of Waste (LoW) code	: 07 01 04* - other organic solvents, washing liquids and mother liquors

### SECTION 14: Transport information

In accordance with ADR

ADR	
<b>14.1. UN number</b>	UN 1263
<b>14.2. UN proper shipping name</b>	PAINT RELATED MATERIAL
<b>Transport document description</b>	UN 1263 PAINT RELATED MATERIAL, 3, II, (D/E)
<b>14.3. Transport hazard class(es)</b>	3
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	Dangerous for the environment : No
<b>No supplementary information available</b>	

#### 14.6. Special precautions for user

##### Overland transport

Classification code (ADR)	: F1
Limited quantities (ADR)	: 5I
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 33
Orange plates	:



Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE

#### 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 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)

VOC content : 100 %

##### 15.1.2. National regulations

No additional information available.

# MPM Thinner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 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
	Supersedes	Modified	
	Revision date	Modified	
	Flammability (solid, gas)	Added	
	Type of product	Added	
1.1	Trade name	Added	
1.2	Use of the substance/mixture	Added	
1.2	Function or use category	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	CLP Signal word	Added	
2.2	Hazard pictograms (CLP)	Added	
2.2	Precautionary statements (CLP)	Added	
2.2	Hazard statements (CLP)	Added	
3	Composition/information on ingredients	Modified	
9.1	Decomposition temperature	Added	
9.1	Auto-ignition temperature	Modified	
9.1	Solubility in organic solvents	Modified	
9.1	Vapour pressure	Modified	
9.1	Solubility in water	Modified	
9.1	Explosive limits (vol %)	Modified	
9.1	Boiling point	Modified	
9.1	Density	Modified	
9.1	Colour	Modified	
11.1	ATE CLP (dermal)	Added	
11.1	ATE CLP (oral)	Added	
13.1	Waste disposal recommendations	Added	

### Abbreviations and acronyms:

	ACGIH: American Conference of Governmental Industrial Hygienists. TWA: Time Weighted Average. TLV: Threshold Limit Value. ASTM: American Society for Testing and Materials . ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route . RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail . ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin. IMDG: International Maritime Dangerous Goods. ICAO: International Civil Aviation Organization . IATA: International Air Transport Association. STEL: Short Term Exposure Limit. LD50: median Lethal Dose for 50% of subjects. ATE: acute toxicity estimate. LC50: median Lethal Concentration for 50% of subjects. EC50: concentration producing 50% effect.
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### Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3



# MPM Thinner

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

### 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.*