



MPM Professional EGR & Intake Cleaner

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 13-8-2014 Revision date: 2-12-2022 Supersedes: 1-2-2022 version: 2.1

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

1.1. Product identifier

Product form	: Mixture
Trade name	: MPM Professional EGR & Intake Cleaner
UFI	: 803K-T52W-D00T-CJSS
Product code	: AD04000
Type of product	: Additives
Vaporizer	: Aerosol.
Product group	: Blend

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	: For professional use only
Use of the substance/mixture	: Surfactants
Function or use category	: Aerosol propellants

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 - 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]

Aerosol, Category 1	H222;H229
Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411
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) :



MPM Professional EGR & Intake Cleaner

Safety Data Sheet

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

	GHS02	GHS05	GHS07	GHS09
CLP Signal word	: Danger.			
Hazardous ingredients	: Iso-butanol; Ammonia; Hydrocarbons, C9, aromatics			
Hazard statements (CLP)	: H222 - Extremely flammable aerosol. H229 - Pressurised container: May burst if heated. H314 - Causes severe skin burns and eye damage. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H411 - Toxic to aquatic life with long lasting effects.			
Precautionary statements (CLP)	: P102 - Keep out of reach of children. P210 - Keep away from open flames, sparks, hot surfaces. - No smoking. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear face protection, protective clothing, protective gloves, eye protection. P301+P310+P331 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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.			
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking.			

2.3. Other hazards

No additional information available.

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]
Hydrocarbons, C9, aromatics	(CAS-No.) 128601-23-0 (EC-No.) 918-668-5 (REACH-no) 01-2119455851-35	≥ 25 – ≤ 50	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Iso-butanol	(CAS-No.) 78-83-1 (EC-No.) 201-148-0 (EC Index-No.) 603-108-00-1	≥ 10 – ≤ 25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335
2-butoxyethanol	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0 (REACH-no) 01-2119475108-36	≥ 10 – ≤ 25	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
propane	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5 (REACH-no) 01-2119486944-21	≥ 2,5 – ≤ 10	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Ammonia	(CAS-No.) 1336-21-6 (EC-No.) 215-647-6 (EC Index-No.) 007-001-01-2	≥ 5 – ≤ 10	Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400
butane	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119474691-32	≥ 1 – ≤ 2,5	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
isobutane (containing ≥ 0,1% butadiene (203-450-8)) (Note K)	(CAS-No.) 75-28-5 (EC-No.) 200-857-2 (EC Index-No.) 601-004-01-8	≥ 0,1 – ≤ 1	Flam. Gas 1A, H220 Press. Gas (Comp.), H280

MPM Professional EGR & Intake Cleaner

Safety Data Sheet

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

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Ammonia	(CAS-No.) 1336-21-6 (EC-No.) 215-647-6 (EC Index-No.) 007-001-01-2	(5 ≤C < 100) STOT SE 3, H335

Note K : The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (EINECS No 203-450-8). If the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-P210-P403 should apply. This note applies only to certain complex oil-derived substances in Part 3.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General	: Remove the victim away from contaminated area.
After inhalation	: Remove person to fresh air and keep 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.
After eye contact	: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
After ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Aspiration hazard. Go into open air and ventilate suspected area.

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

After inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
After skin contact	: Repeated exposure may cause skin dryness or cracking.
After eye contact	: Causes eye irritation.
After ingestion	: Aspiration hazard. Ingestion may cause nausea, vomiting and diarrhea. Entering the lungs by ingestion or vomiting may cause severe lung damage.

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

Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Symptoms of respiratory complications (lung oedema) may occur several hours after.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray, powder, foam and CO ₂ .
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.
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5.3. Advice for firefighters

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
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	: Eliminate every possible source of ignition.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing and gloves.
Emergency procedures	: Avoid contact with skin and eyes. Do not breathe vapours.

6.1.2. For emergency responders

Protective equipment	: Wear respiratory protection.
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6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid 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	: This material and its container must be disposed of in a safe way, and as per local legislation.
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.

MPM Professional EGR & Intake Cleaner

Safety Data Sheet

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: This product is not to be used under conditions of poor ventilation. Avoid aerosol formation.
Precautions for safe handling	: Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.
Hygiene measures	: Avoid all unnecessary exposure. Wash contaminated clothing before reuse. 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 well-ventilated place. Keep container tightly closed. Keep in a cool, well-ventilated place away from heat. Keep only in the original container at a temperature not exceeding the flash point.
Storage conditions	: Keep container tightly closed. Store in a dry place. Store in a well-ventilated place. Keep cool.
Heat and ignition sources	: Protect from heat and direct sunlight.
Information on mixed storage	: May react violently with oxidants.
Storage area	: Store according to local legislation.
Special rules on packaging	: Keep only in original container.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-butoxyethanol (111-76-2)

EU	IOELV TWA (mg/m ³)	98 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	246 mg/m ³
EU	IOELV STEL (ppm)	50 ppm
Germany	Notes	

butane (106-97-8)

EU	IOELV TWA (mg/m ³)	1430 mg/m ³
EU	IOELV TWA (ppm)	600 ppm
Germany	Notes	

Additional information : Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40) 1200mg/m³

8.2. Exposure controls

Personal protective equipment:

At high vapor/gas concentration: gas mask with filter type AX. Gloves. Safety glasses.

Hand protection:

Protective gloves					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN ISO 374

Eye protection:

Wear tight fitting safety glasses or facial screen			
Type	Field of application	Characteristics	Standard
Safety glasses	Use splash goggles when eye contact due to splashing is possible	With side shields	EN 166

Skin and body protection:

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

Respiratory protection:

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

MPM Professional EGR & Intake Cleaner

Safety Data Sheet

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

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol can.
Colour	: White.
Odour	: Characteristic.
Odour threshold	: No data available.
pH	: 10 @ 20°C
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: -44,5 °C
Flash point	: Not applicable as aerosol.
Auto-ignition temperature	: No self ignition was observed up to the specified temperature
Decomposition temperature	: No data available.
Flammability (solid, gas)	: 240 °C
Vapour pressure	: 4500 hPa @ 20°C
Relative vapour density at 20°C	: No data available.
Relative density	: No data available.
Density	: 828 kg/m ³ @ 20°C
Solubility	: Insoluble in water. Water: 15,7 % Organic solvent: 64,9 %
Log Pow	: No data available.
Viscosity, kinematic	: ≤ 20,5 mm ² /s @ 40°C
Viscosity, dynamic	: No data available.
Explosive properties	: Product is not explosive. In use, may form flammable/explosive vapour-air mixture.
Oxidising properties	: No data available.
Explosive limits	: 0,7 – 12 vol %

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional 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

No additional information available.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

MPM Professional EGR & Intake Cleaner

Safety Data Sheet

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

Hydrocarbons, C9, aromatics (128601-23-0)

LD50 oral rat	3492 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 Inhalation - Rat	> 6193 mg/l/4h

Iso-butanol (78-83-1)

LD50 oral rat	2460 mg/kg
LD50 dermal rabbit	4200 mg/kg

2-butoxyethanol (111-76-2)

LD50 oral rat	300 – 2000 mg/kg
LD50 oral	300 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight
LD50 dermal rabbit	400 mg/kg
LC50 Inhalation - Rat (Vapours)	11 mg/l/4h

propane (74-98-6)

LC50 Inhalation - Rat (Vapours)	20 mg/l/4h
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Ammonia (1336-21-6)

LD50 oral rat	350 mg/kg
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butane (106-97-8)

LC50 Inhalation - Rat (Vapours)	658 mg/l/4h
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Skin corrosion/irritation	: Causes severe skin burns. pH: 10 @ 20°C
Serious eye damage/irritation	: Assumed to cause serious eye damage pH: 10 @ 20°C
Respiratory or skin sensitisation	: Not classified
Additional information	: No sensitizing effect known
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure	: Not classified

Iso-butanol (78-83-1)

NOAEL (oral, rat, 90 days)	> 1450 mg/kg bodyweight OECD Guideline 408
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Aspiration hazard	: May be fatal if swallowed and enters airways.
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MPM Professional EGR & Intake Cleaner

Vaporizer	Aerosol.
Viscosity, kinematic	≤ 20,5 mm²/s @ 40°C

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)	: Toxic to aquatic life with long lasting effects.

MPM Professional EGR & Intake Cleaner

Safety Data Sheet

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

Hydrocarbons, C9, aromatics (128601-23-0)

EC50 Daphnia 1	3,2 mg/l Daphnia magna)
EC50 96h - Algae [1]	9,2 mg/l Oncorhynchus mykiss
NOEC chronic algae	1 mg/l Pseudokirchneriella subcapitata)

Iso-butanol (78-83-1)

LC50 fish 1	1430 mg/l Pimephales promelas
EC50 Daphnia 1	1100 mg/l Daphnia pulex
NOEC (chronic)	20 mg/l @ 21d Daphnia magna

2-butoxyethanol (111-76-2)

LC50 fish 1	1490 mg/l Lepomis macrochirus
EC50 Daphnia 1	> 1800 mg/l Daphnia magna
EC50 72h - Algae [1]	> 911 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	> 1840 mg/l Pseudokirchneriella subcapitata
NOEC (chronic)	100 mg/l Daphnia magna Duration: @ 21d
NOEC chronic fish	> 100 mg/l

Ammonia (1336-21-6)

LC50 fish 1	0,083 mg/l
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12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Container under pressure. Do not drill or burn even after use. Remove to an authorized waste treatment plant.

SECTION 14: Transport information

In accordance with ADR / IMDG

ADR	IMDG
14.1. UN number	
UN 1950	UN 1950
14.2. UN proper shipping name	
AEROSOLS	AEROSOLS
Transport document description	
UN 1950 AEROSOLS, 2.1 (8), (E), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
2.1 (8)	2.1 (8)

MPM Professional EGR & Intake Cleaner

Safety Data Sheet

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

14.4. Packing group

Not applicable

Not applicable

14.5. Environmental hazards

Dangerous for the environment : Yes

Dangerous for the environment : Yes
Marine pollutant : Yes

No supplementary information available

14.6. Special precautions for user

Overland transport

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

Transport by sea

Limited quantities (IMDG) : SP277
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U

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)

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	
1.1	Trade name	Added	
2.2	Precautionary statements (CLP)	Modified	
4.1	After skin contact	Modified	
4.1	After inhalation	Modified	
4.1	After ingestion	Modified	
4.1	After eye contact	Modified	
4.1	General	Modified	
4.2	After skin contact	Added	
4.2	After inhalation	Added	
4.2	After ingestion	Added	
4.2	After eye contact	Added	
5.1	Unsuitable extinguishing media	Added	
5.1	Suitable extinguishing media	Added	

MPM Professional EGR & Intake Cleaner

Safety Data Sheet

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

8.2	Respiratory protection	Added	
8.2	Hand protection	Added	
8.2	Skin and body protection	Added	

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
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. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 3	Flammable liquids, Category 3
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, 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
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
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.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.