

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 19/08/2014 Revision date: 07/08/2025 Supersedes: 02/07/2024 version: 4.1

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

#### 1.1. Product identifier

Product form : Mixture

Trade name : MPM Engine Flush
UFI : GQ0U-NSDC-S10F-C2U1

Product code : AD14000
Type of product : Additives
Product group : Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

## Relevant identified uses

Main use category : Professional use, Consumer use, Industrial use

Industrial/Professional use spec : Non-dispersive use

Used in closed systems

Use of the substance/mixture : Additives for gasoline fuel.

Function or use category : Fuel additives

## 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

MPM International Oil Company BV

Cyclotronweg 1

NL 2629 HN Delft, Zuid Holland

Nederland

T +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

info@mpmoil.com, www.mpmoil.com

## 1.4. Emergency telephone number

No additional information available

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Not classified

## Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

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

Precautionary statements (CLP) : P102 - Keep out of reach of children.

EUH-statements : EUH210 - Safety data sheet available on request.

EUH208 - Contains: C14-16-18 Alkylphenol. May produce an allergic reaction.

## 2.3. Other hazards

Other hazards not contributing to the classification

The substance is included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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.

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## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Comments : Highly refined mineral oil, contains <3% (w/w) DMSO extract, according to IP346

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27	≥ 75 – ≤ 100	Asp. Tox. 1, H304
C14-16-18 Alkylphenol	CAS-No.: 1190625-94-5 EC-No.: 931-468-2 REACH-no: 01-2119498288- 19	> 0 - < 0.25	Skin Sens. 1B, H317 STOT RE 2, H373

Comments

The classification as carcinogenic does not qualify because the substance contains less than 3% DMSO extract as measured according to IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method' (CLP, Annex VI, note L).

UVCB = Substances of unknown or variable composition, complex reaction products or

biological materials."

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

## **SECTION 4: First aid measures**

	4.1. Desc	cription of	first aid	measures	
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General : In case of accident or if you feel unwell, seek medical advice immediately (show safety data

sheet if possible). If unconscious, place in the recovery position and seek medical advice.

Never give an unconscious person water or anything like that. 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. Do not use solvents or thinners.

After eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

After ingestion : Immediately call a POISON CENTER/doctor. Vomiting: prevent asphyxia/aspiration

> pneumonia. Do NOT induce vomiting. Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after

exposure.

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

After inhalation : Aspiration of the product into the lungs may cause very serious pneumonia. Symptoms of

chemical pneumonia may appear after several hours.

After skin contact Not expected to present a significant skin hazard under anticipated conditions of normal

After eye contact In case of eye contact, immediately rinse with clean water for 10-15 minutes. After adequate

first aid, no further treatment is required unless symptoms reappear.

After ingestion : May result in aspiration into the lungs, causing chemical pneumonia.

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

Ingestion of large quantities: immediately to hospital. Keep under medical supervision for at least 48 hours.

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### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, powder, foam and CO2. Unsuitable extinguishing media : Do not use a heavy water stream.

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

Fire hazard : In case of fire and/or explosion do not breathe fumes.

Explosion hazard : Heating may cause a fire or explosion. Reactivity in case of fire : Fire will develop dense smoke.

Hazardous decomposition products in case of fire : Carbon dioxide (CO2). Carbon monoxide (CO).

### 5.3. Advice for firefighters

Other information

Precautionary measures fire : Exercise caution when fighting any chemical fire. Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

: On combustion, forms: carbon oxides (CO and CO2). On burning: release of (highly) toxic

gases/vapours. Do not enter fire area without proper protective equipment, including

respiratory protection.

## **SECTION 6: Accidental release measures**

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

General measures : If spilled, may cause the floor to be slippery.

For non-emergency personnel

Protective equipment : Gloves. Safety glasses.

Emergency procedures : Avoid contact with skin and eyes.

For emergency responders

Protective equipment : Wear suitable protective clothing and gloves. Safety glasses.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. 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 : Detergent. Clean up any spills as soon as possible, using an absorbent material to collect it.

Other information : Spill area may be slippery. Use suitable disposal containers.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Additional hazards when processed : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are

usually required.

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

Handling temperature : < 40 °C

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

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

Technical measures : Store in a closed container.

Storage conditions : Keep container closed when not in use.

Storage temperature : ≤ 40 °C

Storage area : Store in dry, well-ventilated area.

## 7.3. Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **DNEL and PNEC**

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m3 oilspray (TWA, 8 hour workday) is

recommended.

## 8.2. Exposure controls

#### Appropriate engineering controls

#### **Technical measures:**

No additional information available.

#### Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses.

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





### Eye and face protection

## Eye protection:

Safety goggles

#### **Skin protection**

## Skin and body protection:

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

## Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN ISO 374

## **Respiratory protection**

## Respiratory protection:

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

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid.
Colour : Light brown.
Appearance : Oily liquid.

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Odour Characteristic. Odour threshold Not available Not available Melting point Not available Freezing point Boiling point Not available Flammability (solid, gas) Not available Lower explosion limit Not available Upper explosion limit Not available

Flash point : > 200 °C @ ASTM D92

Auto-ignition temperature : Not available
Decomposition temperature : Not available
pH : Not available
Viscosity, kinematic : 32 mm²/s @ 40°C
Solubility : Insoluble.
Log Kow : Not available

Log Pow : 9.2

Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : 873 kg/m³ @ 15°C
Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

None under normal conditions.

## 10.2. Chemical stability

Stable under normal conditions of use.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

No naked flames, sparks, and do not smoke.

## 10.5. Incompatible materials

Strong oxidizing agent. Acids and bases.

## 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
Acute toxicity (inhalation) : Not classified

Additional information : Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex

combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a

viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).]

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MPM Engine Flush	
LD50 oral rat	> 5000 mg/kg bw/day
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 5.53 mg/l/4h
C14-16-18 Alkylphenol (1190625-94-5)	
LD50 oral rat	2000 mg/kg
LD50 dermal rat	2000 mg/kg
ATE CLP (oral)	2000 mg/kg bodyweight
ATE CLP (dermal)	2000 mg/kg bodyweight
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).]</li> </ul>
MPM Engine Flush	
LOAEL (oral, rat)	125 mg/kg bodyweight
NOAEL (dermal, rat/rabbit)	1000 mg/kg bodyweight
STOT-repeated exposure	: Not classified
C14-16-18 Alkylphenol (1190625-94-5)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).]
MPM Engine Flush	
Viscosity, kinematic	32 mm²/s @ 40°C

## 11.2. Information on other hazards

## **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 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 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

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MPM Engine Flush		
LC50 fish 1	> 100 mg/l Pimephales promelas	
EC50 Daphnia 1	> 10000 mg/l	
NOEC chronic fish	1000 mg/l	
NOEC chronic crustacea	10 mg/l	
NOEC chronic algae	> 100 mg/l	
C14-16-18 Alkylphenol (1190625-94-5)		
EC50 Daphnia 1	100 mg/l Daphnia magna	

# 12.2. Persistence and degradability

MPM Engine Flush		
Persistence and degradability	Not soluble in water, so only minimally biodegradable.	
Additional information	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).]	
Distillates (petroleum), solvent-dewaxed heavy paraffinic, Baseoil (64742-65-0)		
Persistence and degradability	Rapidly degradable	
C14-16-18 Alkylphenol (1190625-94-5)		
Persistence and degradability	Rapidly degradable	

## 12.3. Bioaccumulative potential

MPM Engine Flush	
Bioconcentration factor (BCF REACH)	260
Log Pow	9.2

# 12.4. Mobility in soil

MPM Engine Flush	
Soil	Prevent soil and water pollution.

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The product does not contain any substances with endocrine disrupting properties.

# 12.7. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Additional information : This material and its container must be disposed of in a safe way, and as per local legislation.

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European List of Waste (LoW, EC 2000/532) : 13 02 06\* - synthetic engine, gear and lubricating oils

## **SECTION 14: Transport information**

In accordance with ADR / IMDG

ADR	IMDG	
14.1. UN number or ID number		
Not regulated for transport		
14.2. UN proper shipping name		
Not regulated Not regulated		
14.3. Transport hazard class(es)		
Not regulated	Not regulated	
14.4. Packing group		
Not regulated	Not regulated	
14.5. Environmental hazards		
Not regulated	Not regulated	
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

### **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

## **REACH Annex XIV (Authorisation List)**

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

#### **REACH Candidate List (SVHC)**

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

### **PIC Regulation (Prior Informed Consent)**

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

### **POP Regulation (Persistent Organic Pollutants)**

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

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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## **Explosives Precursors Regulation (EU 2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

## **Drug Precursors Regulation (EC 273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

# **SECTION 16: Other information**

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 disruptor  EC-No. European Community number  VPVB Very Persistent and Very Bioaccumulative  SDS Safety Data Sheet  TRGS Technical Rules for Hazardous Substances  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  OEC Organisation for Economic Co-operation and Development  NOEC No-Observed Effect Concentration  NOAEC No-Observed Adverse Effect Cencentration  NOAEC No-Observed Adverse Effect Level  LD50 Median lethal dose	Abbreviations and acronyms:		
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  ECS0 Median effective concentration  ED Endocrine disruptor  EC-No. European Community number  VPVB Very Persistent and Very Bioaccumulative  SDS Safety Data Sheet  TRGS Technical Rules for Hazardous Substances  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  NOEC No-Observed Effect Concentration  NOAEC No-Observed Adverse Effect Level  LDSO Median lethal dose	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
BCF Biconcentration 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 disruptor  EC-No. European Community number  VPVB Very Persistent and Very Bioaccumulative  SDS Safety Data Sheet  Technical Rules for Hazardous Substances  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  NOEC No-Observed Adverse Effect Concentration  NOAEC No-Observed Adverse Effect Level  LDSO Median lethal dose	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
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NOEC No-Observed Effect Concentration  NOAEC No-Observed Adverse Effect Concentration  LOAEL Lowest Observed Adverse Effect Level  LD50 Median lethal dose	OEL	Occupational Exposure Limit	
NOAEC No-Observed Adverse Effect Concentration  LOAEL Lowest Observed Adverse Effect Level  LD50 Median lethal dose	OECD	Organisation for Economic Co-operation and Development	
LOAEL Lowest Observed Adverse Effect Level  LD50 Median lethal dose	NOEC	No-Observed Effect Concentration	
LD50 Median lethal dose	NOAEC	No-Observed Adverse Effect Concentration	
	LOAEL	Lowest Observed Adverse Effect Level	
N.O.S. Not Otherwise Specified	LD50	Median lethal dose	
	N.O.S.	Not Otherwise Specified	

# Safety Data Sheet

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

Abbreviations and acronyms:	
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 Training advice

Other information

- : Supplier's safety documents. ECHA (European Chemicals Agency).
- : Normal use of this product shall imply use in accordance with the instructions on the packaging.
- 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:	
Asp. Tox. 1	Aspiration hazard, Category 1
EUH208	Contains: C14-16-18 Alkylphenol. May produce an allergic reaction.
EUH210	Safety data sheet available on request.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

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.

07/08/2025 (Revision date) IE - en 10/10