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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product form : Mixture : Polycraft Variable Target Foam (VTF1) Part B Trade name Product code 7821 : 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses : Industrial use, Professional use Main use category Use of the substance/mixture : Casting compound 1.2.2. Uses advised against No additional information available 1.3. Details of the supplier of the safety data sheet MB Fibreglass Unit 17&20 Abbey Business Park, Mill Road, Newtownabbey, Co.Antrim, BT36 7EE, Tel: 02890 861992 Email: sales@mbfg.co.uk 1.4. Emergency telephone number Emergency number : 02890 861992 Office hours only **SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Acute toxicity (inhalation:dust,mist) Category 4 H332 Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319 Respiratory sensitisation, Category 1 H334 Skin sensitisation, Category 1 H317 Carcinogenicity, Category 2 H351 Specific target organ toxicity - Single exposure, Category 3, Respiratory H335 tract irritation Specific target organ toxicity - Repeated exposure, Category 2 H373

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

#### Adverse physicochemical, human health and environmental effects

Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful if inhaled. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### 2.2. Label elements

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

Hazard pictograms (CLP)



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Signal word (CLP)	: Danger
Contains	: 1,1'-Methylenebis(4-isocyanatobenzene) and its reaction products with
	[(methylethylene)bis(oxy)]dipropanol, butane-1,3-diol, propylene glycol and 1,1'-
	methylenebis(4-isocyanatobenzene) homopolymer; 4,4'-Methylenediphenyl diisocyanate,
	oligomers; Isocyanic acid, polymethylenepolyphenylene ester (P-MDI)
Hazard statements (CLP)	: H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	H319 - Causes serious eye irritation.
	H332 - Harmful if inhaled.
	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335 - May cause respiratory irritation.
	H351 - Suspected of causing cancer.
	H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use.
	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
	P280 - Wear protective gloves, protective clothing, eye protection.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
	P321 - Specific treatment (see supplemental first aid instruction on this label).
	P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
Extra phrases	: As from 24 August 2023 adequate training is required before industrial or professional use

2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,1'-Methylenebis(4-isocyanatobenzene) and its reaction products with [(methylethylene)bis(oxy)]dipropanol, butane-1,3-diol, propylene glycol and 1,1'-methylenebis(4- isocyanatobenzene) homopolymer	EC-No.: 500-313-7 REACH-no: 01-2119486870- 28	≥ 50	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
4,4'-Methylenediphenyl diisocyanate, oligomers	CAS-No.: 25686-28-6 EC-No.: 500-040-3 REACH-no: 01-2119457013- 49	25 – 50	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Isocyanic acid, polymethylenepolyphenylene ester (P- MDI) substance with national workplace exposure limit(s) (GB)	CAS-No.: 9016-87-9	1 – 25	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

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

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

4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.		
5.2. Special hazards arising from the substance or mixture			
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Advice for firefighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipm	pont and omorgancy procedures	
o. 1. Personal precautions, protective equipit	ient and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment a	nd cleaning up	
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	
Other information	Dispose of materials or solid residues at an authorized site.	

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#### 6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage	ge
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	<ul> <li>Obtain special instructions before use. Do not handle until all safety precautions have beer read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.</li> <li>Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Isocyanic acid, polymethylenepolyphenylene ester (P-MDI) (9016-87-9)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	0.02 mg/m³
WEL STEL (OEL STEL)	0.07 mg/m³

#### 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

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

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



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#### 8.2.2.1. Eye and face protection

Eye protection: Safety glasses

#### 8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

[In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

Physical state	: Liquid
Colour	· brown
Odour	: slight.
Odour threshold	: No data available
pH	: No data available
' Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: 1.15 – 1.2 g/cm³ (25°C)
Solubility	: Water: Reacts with water
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 150 – 250 mPa.s (25°C)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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### 10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1 Information on toxicological effects	
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Harmful if inhaled.
Polycraft Variable Target Foam Part B	
ATE CLP (dust,mist)	1.5 mg/l/4h
1,1'-Methylenebis(4-isocyanatobenzene) and diol, propylene glycol and 1,1'-methylenebis	its reaction products with [(methylethylene)bis(oxy)]dipropanol, butane-1,3- (4-isocyanatobenzene) homopolymer
LD50 oral rat	<ul> <li>&gt; 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline</li> <li>425 (Acute Oral Toxicity: Up-and-Down Procedure), Remarks on results: other:</li> </ul>
LD50 dermal rabbit	> 9400 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
4,4'-Methylenediphenyl diisocyanate, oligom	ers (25686-28-6)
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
LD50 dermal rabbit	> 9400 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Isocyanic acid, polymethylenepolyphenylene	e ester (P-MDI) (9016-87-9)
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
Skin corrosion/irritation :	Causes skin irritation.
Serious eye damage/irritation :	Causes serious eye irritation.
Respiratory or skin sensitisation :	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Suspected of causing cancer.
Isocyanic acid, polymethylenepolyphenylene	e ester (P-MDI) (9016-87-9)
IARC group	3 - Not classifiable
Reproductive toxicity :	Not classified
STOT-single exposure :	May cause respiratory irritation.

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1,1'-Methylenebis(4-isocyanatobenzene) and its reaction products with [(methylethylene)bis(oxy)]dipropanol, butane-1,3- diol, propylene glycol and 1,1'-methylenebis(4-isocyanatobenzene) homopolymer		
STOT-single exposure	May cause respiratory irritation.	
4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)		
STOT-single exposure	May cause respiratory irritation.	
Isocyanic acid, polymethylenepolyphenylene ester (P-MDI) (9016-87-9)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure :	May cause damage to organs through prolonged or repeated exposure.	
1,1'-Methylenebis(4-isocyanatobenzene) and its reaction products with [(methylethylene)bis(oxy)]dipropanol, butane-1,3- diol, propylene glycol and 1,1'-methylenebis(4-isocyanatobenzene) homopolymer		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Isocyanic acid, polymethylenepolyphenylene ester (P-MDI) (9016-87-9)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard :	Not classified	
1,1'-Methylenebis(4-isocyanatobenzene) and its reaction products with [(methylethylene)bis(oxy)]dipropanol, butane-1,3- diol, propylene glycol and 1,1'-methylenebis(4-isocyanatobenzene) homopolymer		
Viscosity, kinematic	870 mm²/s (20°C)	

SECTION 12: Ecological information		
12.1. Toxicity		
	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified	
(acute) Hazardous to the aquatic environment, long-term : (chronic) Not rapidly degradable	Not classified	
1,1'-Methylenebis(4-isocyanatobenzene) and its reaction products with [(methylethylene)bis(oxy)]dipropanol, butane-1,3- diol, propylene glycol and 1,1'-methylenebis(4-isocyanatobenzene) homopolymer		
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna (Water flea)	
EC50 72h - Algae [1]	> 1640 mg/l Desmodesmus subspicatus	
NOEC (chronic)	≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	≥ 10 mg/l Brachydanio rerio (zebra-fish)	
4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)		
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 72h - Algae [1]	> 1640 mg/l Desmodesmus subspicatus	
NOEC (chronic)	≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
12.2. Persistence and degradability		

No additional information available

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12.3. Bioaccumulative potential		
1,1'-Methylenebis(4-isocyanatobenzene) and its reaction products with [(methylethylene)bis(oxy)]dipropanol, butane-1,3- diol, propylene glycol and 1,1'-methylenebis(4-isocyanatobenzene) homopolymer		
Partition coefficient n-octanol/water (Log Pow)	6.17	
4,4'-Methylenediphenyl diisocyanate, oligomers (25686-28-6)		
Partition coefficient n-octanol/water (Log Pow)	8.56 Source: ECHA	
Isocyanic acid, polymethylenepolyphenylene ester (P-MDI) (9016-87-9)		
Partition coefficient n-octanol/water (Log Pow)	10.46 Source: Quantitative Structure Activity Relation	

### 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 treatment methods European List of Waste (LoW) code HP Code	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>08 05 01* - waste isocyanates</li> <li>HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.</li> <li>HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.</li> <li>HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence</li> <li>HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.</li> <li>HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.</li> </ul>

# **SECTION 14: Transport information**

#### In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	

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ADRIMDGIATAADNRID14.5. Environmental hazardsNot regulatedNot regulatedNot regulatedNot regulatedNot supplementary information available

14.6. Special precautions for user

### **Overland transport**

Not regulated

#### Transport by sea Not regulated

Air transport

Not regulated

#### Inland waterway transport Not regulated

### Rail transport

Not regulated

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

#### **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)

#### Explosives Precursors Regulation (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 (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)

#### 15.1.2. National regulations

No additional information available

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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

Abbroviations and a			
	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)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
ΙΑΤΑ	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
РВТ	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disrupting properties		

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Full text of H- and EUH-statements:		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Carc. 2	Carcinogenicity, Category 2	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H335	May cause respiratory irritation.	
H351	Suspected of causing cancer.	
H373	May cause damage to organs through prolonged or repeated exposure.	
Resp. Sens. 1	Respiratory sensitisation, Category 1	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

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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.