



Trade name: Anti-Graffiti Part B

Version: 1 /

Date revised: 03.08.2020

Substance number: 3602XX591

Replaces Version: - / WORLD

Print date: 03.08.20

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

1.1. Product identifier

Anti-Graffiti Part B

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

Use of the substance/preparation

Auxiliary

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Marabu GmbH & Co. KG
Asperger Strasse 4
71732 Tamm
Germany
Telephone no. +49-7141/691-0
Fax no. +49-7141/691-147
Information provided by / telephone Department product safety
E-mail address of person responsible PRSI@marabu.com
for this SDS

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H332
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT SE 3	H335

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H332	Harmful if inhaled.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.



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Precautionary statements

P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
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.
P310	Immediately call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains	Hexamethylene-1,6-diisocyanate, homopolymer; Methanol; [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane
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Supplemental information

EUH204	Contains isocyanates. May produce an allergic reaction.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Silane

Hazardous ingredients**[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane**

CAS No.	2530-83-8
EINECS no.	219-784-2
Registration no.	01-2119513212-58
Concentration	>= 50 < 100 %

Classification (Regulation (EC) No. 1272/2008)
Eye Dam. 1 H318

Hexamethylene-1,6-diisocyanate, homopolymer

CAS No.	28182-81-2
Registration no.	01-2119485796-17
Concentration	>= 29 < 46 %

Classification (Regulation (EC) No. 1272/2008)
Skin Sens. 1 H317
Acute Tox. 4 H332
STOT SE 3 H335

Methanol

CAS No.	67-56-1
EINECS no.	200-659-6
Registration no.	01-2119433307-44
Concentration	>= 0,1 < 0,62 %

Classification (Regulation (EC) No. 1272/2008)
Flam. Liq. 2 H225
Acute Tox. 3 H331
Acute Tox. 3 H311
Acute Tox. 3 H301



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STOT SE 1 H370

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 2 H371 $\geq 3 < 10$ STOT SE 1 H370 ≥ 10

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Summon a doctor immediately. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Summon a doctor immediately.

After skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

Drink water in small gulps. Seek medical advice immediately and show this container or label. Do NOT induce vomiting.

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

Until now no symptoms known so far.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); dense black smoke; Silicon dioxide; Nitrogen oxides (NO_x); Hydrogen cyanide (HCN)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus. Wear full protective suit. Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product. Do not breathe gas/fumes/vapour/spray. Ensure adequate ventilation. Remove persons to safety. Refer to protective measures listed in Sections 7 and 8.



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6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Smoking, eating and drinking shall be prohibited in application area. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Never use pressure to empty: container is not a pressure vessel. For personal protection see Section 8.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from sources of ignition - No smoking.

Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires B (Combustible liquid substances)

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage rooms must be properly ventilated. Prevent unauthorized access. Store in accordance with national regulation

Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from atmospheric moisture and water. Keep in original containers.

7.3. Specific end use(s)

Printing auxiliary

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Derived No/Minimal Effect Levels (DNEL/DMEL)

Hexamethylene-1,6-diisocyanate, homopolymer

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,5	mg/m ³

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Duration of exposure	Short term

Safety data sheet in accordance with regulation (EC) No 1907/2006



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Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m ³

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	21	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	147	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	21	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	147	mg/m ³

Methanol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	260	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	260	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	260	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	

Safety data sheet in accordance with regulation (EC) No 1907/2006



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Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	260	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	40	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	40	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	50	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	50	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	8	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	8	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	8	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	



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Mode of action	Systemic effects	
Concentration	8	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	50	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	50	mg/m ³

Predicted No Effect Concentration (PNEC)

Hexamethylene-1,6-diisocyanate, homopolymer

Type of value	PNEC	
Type	Freshwater	
Concentration	0,127	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,0127	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	1,27	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	38,3	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	266700	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	26670	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	53182	mg/kg

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane

Type of value	PNEC	
Type	Freshwater	
Concentration	1	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,1	mg/l

Type of value	PNEC	
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Type	Sediment	
Concentration	0,79	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,13	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	> 10	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	1	mg/l
Methanol		
Type of value	PNEC	
Type	Freshwater	
Concentration	20,8	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	2,08	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	1540	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	7,7	mg/kg
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	77	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	100	mg/l

8.2. Exposure controls

Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Wash hands before breaks and after work.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Multi-purpose filter ABEK

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any



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individual or combination of chemicals.

Appropriate Material butyl

Material thickness > 0,5 mm

Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Safety glasses with side protection shield

Body protection

Personnel should wear protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	colourless
Odour	slight, product specific
Odour threshold	
Remarks	No data available
pH value	
Remarks	Not applicable
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Value	appr. 233,3 °C
Pressure	1.013 hPa
Source	Literature value
Flash point	
Remarks	Not applicable
Evaporation rate (ether = 1) :	
Remarks	not determined
Flammability (solid, gas)	
Remarks	Not applicable
Upper/lower flammability or explosive limits	
Remarks	not determined
Vapour pressure	
Remarks	No data available
Vapour density	
Remarks	not determined
Density	
Remarks	not determined



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Solubility in water

Remarks partially miscible

Partition coefficient: n-octanol/water

Remarks Not applicable

Ignition temperature

Remarks not determined

Explosive properties

evaluation no

Oxidising properties

evaluation None known

9.2. Other information**Other information**

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactions with water and acids.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Reactions with water and acids.

10.4. Conditions to avoid

When exposed to high temperatures or humidity may produce hazardous decomposition products.

10.5. Incompatible materials

Reactions with water and acids.

10.6. Hazardous decomposition products

such as carbon monoxide and dioxide, smoke, oxides of nitrogen (with high temperatures), methanol (with humidity)

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	>	2.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute oral toxicity (Components)**[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane**

Species	rat		
LD50		8025	mg/kg
Method	OECD 401		

Acute dermal toxicity

ATE	>	2.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute dermal toxicity (Components)**[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane**

Species	rabbit		
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LD50	4250	mg/kg
Method	OECD 402	

Acute inhalational toxicity

ATE	3,6079	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	> 20	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	The classification criteria are met.	

Acute inhalative toxicity (Components)**[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane**

Species	rat	
LC50	5,3	mg/l
Administration/Form	Dust/Mist	
Method	OECD 403	

Skin corrosion/irritation

Remarks	Based on available data, the classification criteria are not met.
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Serious eye damage/irritation

evaluation	corrosive
Remarks	The classification criteria are met.

Sensitization

evaluation	May cause sensitization by skin contact.
Remarks	The classification criteria are met.

Mutagenicity

Remarks	Based on available data, the classification criteria are not met.
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Reproductive toxicity

Remarks	Based on available data, the classification criteria are not met.
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Carcinogenicity

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT)**Single exposure**

Remarks	The classification criteria are met.
evaluation	May cause respiratory irritation.

Repeated exposure

Remarks	Based on available data, the classification criteria are not met.
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Aspiration hazard

Remarks	Based on available data, the classification criteria are not met.
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Experience in practice

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Inhalation of vapours may lead to headache, drowsiness and dizziness. The liquid splashed in the eyes may cause irritation. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms such as redness, blistering, dermatitis, etc.

Other information

There are no data available on the mixture itself.
The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly.

SECTION 12: Ecological information



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12.1. Toxicity

General information

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

12.2. Persistence and degradability

General information

No data available

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

Partition coefficient: n-octanol/water

Remarks Not applicable

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Do not allow to enter drains or water courses.

Wastes and emptied containers should be classified in accordance with relevant national regulation.

The European Waste Catalogue classification of this product, when disposed of as waste is

EWC waste code 08 03 12* waste ink containing dangerous substances

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information contact your local waste authority.

Disposal recommendations for packaging

Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Not emptied containers are hazardous waste (waste code number 150110).

SECTION 14: Transport information



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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.-	The product does not constitute a hazardous substance in sea transport.-	The product does not constitute a hazardous substance in air transport.-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
Subsidiary risk		-	-
Label			
14.4. Packing group	-	-	-
Transport category	0		
14.5. Environmental hazards	-	no	-

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:
 Always transport in closed containers that are upright and secure.
 Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

no

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other information

The product does not contain substances of very high concern (SVHC).

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

- H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.



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H370 Causes damage to organs.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Eye Dam. 1	Serious eye damage, Category 1
Flam. Liq. 2	Flammable liquid, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 1	Specific target organ toxicity - single exposure, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
 This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.
 The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
 The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.