

SAFETY DATA SHEET

According to EC directive 1272/2008 and 2020/878

ARC GLAZING SILICONE White, Coloured

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

1.1. Product identifier

Product form : Mixture

Trade name : Arc Glazing & Construction Silicone - White, Coloured

Type of product : Adhesives, Sealants

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Adhesives, sealants

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Arc Building Products
IDA Business & Tech Park, Ballynattin
Arklow, Co. Wicklow
Ireland. Y14 A370
T: +353 (0)402 32370

1. +353 (0)402 323/0

E: sales@arcbuildingproducts.ie

1.4. Emergency telephone number

Emergency number : +353 (0)402 32370 (Office Hours Only)

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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

EUH-statements : EUH211 - Warning! Hazardous respirable droplets may be formed when

sprayed. Do not breathe spray or mist.

EUH208 - Contains N-(2-aminoethyl)3-aminopropyltrimethoxysilane.

May produce an allergic reaction.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII



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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]
5-ethyl-2,8-dimethyl-5-[(propaan-2-ylideneamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene	(CAS-No.) 58190-57-1	≥ 3 - < 4	STOT RE 2, H373
Titanium Dioxide (Note 10)	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (EC Index-No.) 022-006-00-2 (REACH-no) 01-2119489379-17- 0005 01-2119489379-17-0006 01-2119489379-17-0018	≥1-<2	Carc. 2, H351
N-(2-aminoethyl)3- aminopropyltrimethoxysilane	(CAS-No.) 1760-24-3 (EC-No.) 217-164-6	≥ 0.7 - < 1	Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335

Note 10 - The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1% or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter \leq 10 μ m. Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

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

No additional information available

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 : Toxic fumes may be released.

case of fire



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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 equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

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 and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective

equipment.

Hygiene measures : 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

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Titanium Dioxide (13463-67-7)		
France	VME (OEL TWA)	10 mg/m³
Germany	Notes	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.



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Personal protective equipment:

Gloves.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

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 : Paste.
Colour : white.

Odour : characteristic.

Odour threshold : No data available

pH : No data available

Relative evaporation rate : No data available

(butylacetate=1)

Melting point: Not applicableFreezing point: No data availableBoiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability: Non flammable.



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Vapour pressure : No data available
Relative vapour density at 20°C : No data available
Relative density : No data available
Density : 1.4 g/cm³ ± 0,03
Solubility : No data available
Partition coefficient n-octanol/water : No data available

(Log Pow)

Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
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.

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 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

N-(2-aminoethyl)3-aminopropyltrimethoxysilane (1760-24-3)	
	2295 mg/kg bodyweight (EPA OPPTS 870.1100: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg bodyweight (EPA OPPTS 870.1200: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal)



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N-(2-aminoethyl)3-aminopropyltrimetho	xysilane (1760-24-3)
LC50 Inhalation - Rat	1.49 – 2.44 mg/l air (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
Titanium Dioxide (13463-67-7)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))
5-ethyl-2,8-dimethyl-5-[(propaan-2-ylide	neamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene (58190-57-1)
LD50 oral rat	> 2500 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
Skin corrosion/irritation	: Not classified
N-(2-aminoethyl)3-aminopropyltrimetho	xysilane (1760-24-3)
рН	10.2 (1%)
Titanium Dioxide (13463-67-7)	
рН	7 – 8.5
5-ethyl-2,8-dimethyl-5-[(propaan-2-ylide	neamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene (58190-57-1)
рН	No data available in the literature
Serious eye damage/irritation	: Not classified
N-(2-aminoethyl)3-aminopropyltrimetho	xysilane (1760-24-3)
рН	10.2 (1%)
Titanium Dioxide (13463-67-7)	1
рН	7 – 8.5
5-ethyl-2,8-dimethyl-5-[(propaan-2-ylide	neamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene (58190-57-1)
рН	No data available in the literature
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.
Titanium Dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified



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STOT-single exposure : Not classified

N-(2-aminoethyl)3-aminopropyltrimethoxysilane (1760-24-3)

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STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure	: Not classified	
5-ethyl-2,8-dimethyl-5-[(propaan-2-ylideneamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene (58190-57-1)		
STOT-repeated exposure	May cause damage to organs (blood) through prolonged or repeated exposure (if swallowed).	
Aspiration hazard	: Not classified	
N-(2-aminoethyl)3-aminopropyltrimethoxysilane (1760-24-3)		
Visco situ. Isin one stis	2.4 may 2/2 (2.0 °C Calay I start)	

14 (2 diffillocally) o diffillopy of the carbon oxystatic (1700 24 0)		
Viscosity, kinematic	3.1 mm²/s (20 °C, Calculated)	
Titanium Dioxide (13463-67-7)		
Viscosity, kinematic	Not applicable (solid)	
5-ethyl-2,8-dimethyl-5-[(propaan-2-ylideneamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene (58190-57-1)		
Viscosity, kinematic No data available in the literature		

11.2. Information on other hazards No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to

cause long-term adverse effects in the environment.

Hazardous to the aquatic environment,

short-term (acute)

: Not classified

Hazardous to the aquatic environment,

long-term (chronic)

: Not classified

N-(2-aminoethyl)3-aminopropyltrimethoxysilane (1760-24-3)	
LC50 - Fish [1]	597 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	81 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	8.8 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, Static system, Fresh water, Experimental value, GLP)
Titanium Dioxide (13463-67-7)	
LC50 - Fish [1]	> 100 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)



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Titanium Dioxide (13463-67-7)		
EC50 - Crustacea [1]	19.3 mg/l Test organisms (species): Daphnia magna	
EC50 - Crustacea [2]	27.8 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
ErC50 algae	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)	
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
5-ethyl-2,8-dimethyl-5-[(propaan-2-ylideneamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene (58190-57-1)		
LC50 - Fish [1]	558 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)	
EC50 - Crustacea [1]	544.34 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
ErC50 algae	252.92 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)	
12.2. Persistence and degrada	hility	

12.2. Persistence and degradability

N-(2-aminoethyl)3-aminopropyltrimethoxysilane (1760-24-3)		
Persistence and degradability	Not readily biodegradable in water.	
Titanium Dioxide (13463-67-7)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
5-ethyl-2,8-dimethyl-5-[(propaan-2-ylideneamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene (58190-57-1)		
Persistence and degradability	Not readily biodegradable in water.	

12.3. Bioaccumulative potential

N-(2-aminoethyl)3-aminopropyltrimethoxysilane (1760-24-3)	
Partition coefficient n-octanol/water (Log Pow)	-0.3 (QSAR, 20 °C)
Bioaccumulative potential	Not bioaccumulative.
Titanium Dioxide (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.



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5-ethyl-2,8-dimethyl-5-[(propaan-2-ylideneamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene (58190-57-1)	
BCF - Other aquatic organisms [1]	3.162 l/kg (BCFWIN, Read-across)
Partition coefficient n-octanol/water (Log Pow)	0.2 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

N-(2-aminoethyl)3-aminopropyltrimethoxysilane (1760-24-3)				
Surface tension	No data available in the literature			
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.477 (log Koc, SRC PCKOCWIN v2.0, Calculated value)			
Ecology - soil	Low potential for mobility in soil.			
Titanium Dioxide (13463-67-7)				
Surface tension	No data available in the literature			
Ecology - soil	Low potential for mobility in soil.			
5-ethyl-2,8-dimethyl-5-[(propaan-2-ylideneamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene (58190-57-1)				
Surface tension	70.05 mN/m (20 °C, OECD 115: Surface Tension of Aqueous Solutions)			
Ecology - soil	No (test)data on mobility of the substance available.			

12.5. Results of PBT and vPvB assessment

Component	
N-(2-aminoethyl)3- aminopropyltrimethoxysilane (1760-24-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Titanium Dioxide (13463-67-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
5-ethyl-2,8-dimethyl-5-[(propaan-2-ylideneamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene (58190-57-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number	1			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	ig name	•		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(es)			,
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	zards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary info	ormation available	•	•	

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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



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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

Germany

Regulatory reference : WGK 3, Highly hazardous to water (Classification according to AwSV,

Annex 1)

Hazardous Incident Ordinance (12.

BImSchV)

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be

in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and

disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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	



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EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	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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Data sources

: Classification according to Regulation (EC) No. 1272/2008 [CLP]. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:		
Carc. 2	Carcinogenicity, Category 2	
EUH208	Contains N-(2-aminoethyl)3-aminopropyltrimethoxysilane. May produce an allergic reaction.	
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H335	May cause respiratory irritation.	
H351	Suspected of causing cancer.	
H373	May cause damage to organs through prolonged or repeated exposure.	
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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The information provided in this Safety Data Sheet is correct to the best of our knowledge, Information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material usedin combination with any other materials or in any process, unless specified in the text. It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that theinformation contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces aformulation containing the product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Product Safety Data Sheet to their own Product Safety Data Sheet. All information and instructions provided in this Safety Data Sheet (SDS) are based on the current stateof scientific and technical knowledge at the date indicated on the present SDS. As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase thismaterial outside Europe, where compliance laws may differ, you should receive from your local suppliera SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary -even for the same product between different countries, reflecting the different compliance requirements.

SDS EU FINAL(07.2023)

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.