

## SAFETY DATA SHEET (REACH)

In accordance with Regulation (EC) No 2020/878, amendment to Annex II of Regulation (EC) No 1907/2006 (REACH)



DESA-CHEM EAC (COMP. A)

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### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier:

**Substance name:** DESA-CHEM EAC (COMP. A)

**UFI:** CMN1-303J-E005-DSK1

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

##### 1.2.1. Relevant identified uses

Main use category	Industrial use, Professional use
Use of the substance/mixture	A Chemical anchoring application
Function or use category	Building and construction work

#### 1.3. Details of the Supplier of the safety data sheet:

##### GRUPODESA FASTENERS, S.A.U.

Carrer Basters, 29 Pol.Ind Palau del Reig | 43800 Valls

Tarragona | Spain

Tlf: +34 977 60 84 06

[www.grupodesa.es](http://www.grupodesa.es)

#### 1.4. Emergency telephone number:

+34 977 60 84 06 (Opening hours 8:00 to 17:00)

Information Toxicological Service (National Institute of Toxicology) Phone: +34 91 5620420.

In Spanish language (24h/365 days). Healthy emergencies only.

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) N°1272/2008 (CLP):

Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 2	H361d
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 damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation.

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### 2.2. Label elements:

#### Labelling according to Regulation (EC) n° 1272/2008 (CLP):

##### Hazard statements (CLP):

H319 - Causes serious eye irritation.

H361d - Suspected of damaging the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

**Signal words:** Warning

##### Hazard pictograms:

GHS07 GHS08



##### Precautionary statements:

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective clothing, eye protection, face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

##### EUH-statements:

EUH208 - Contains 2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE (109-16-0), METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL (27813-02-1). May produce an allergic reaction.

**Contains:** STYRENE

### 2.3. Other hazards

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

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 is 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 3. COMPOSITION. INFORMATION ON INGREDIENTS

### 3.1. Substances:

Not applicable

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**3.2. Mixtures:**

Name	Product identifier	%	Classification according to regulation (EC) No. 1272/2008 [CLP]
STYRENE	N° CAS: 100-42-5 N° CE: 202-851-5 N° Índice: 601-026-00-0	<10	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalación), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT RE 1, H372
2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE	N° CAS: 109-16-0 N° CE: 203-652-6 REACH-no: 01-2119969287-21	< 1	Skin Sens. 1, H317
METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL	N° CAS: 27813-02-1 N° CE: 248-666-3 REACH-no: 01-2119490226-37	< 1	Eye Irrit. 2, H319 Skin Sens. 1, H317

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 general	IF exposed or concerned: Get medical advice/attention.
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 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 eye contact	Eye irritation.
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**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.

**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 fire-fighters**

**Protection during firefighting** Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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## 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. 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 and cleaning up:

## Methods for cleaning up

Mechanically recover the product. Notify authorities if product enters sewers or public waters.

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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

## 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 locked up. Store in a well-ventilated place. Keep cool.

### 7.3. Specific end use(s)

Building and construction work.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

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

STYRENE (100-42-5)	
United Kingdom - Occupational Exposure Limits	
Local name	Styrene
WEL TWA (OEL TWA) [1]	430 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	100 ppm
WEL STEL (OEL STEL)	1080 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	250 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

##### 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):



###### 8.2.2.1 Eye and face protection

###### Eye protection:

Safety glasses

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### 8.2.2.2 Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Chemical resistant gloves (according to European standard EN 374 or equivalent)

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Reusable gloves	Nitrile rubber (NBR), Butyl rubber, Viton® II	6 (> 480 minutes)	0.4	As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.	EN ISO 374

### 8.2.2.3 Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN141. [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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state	Solid
Colour	brown.
Appearance	Paste.
Odour	Characteristic odour.
Odour threshold	Not available
Melting point	Not available
Freezing point	Not applicable
Boiling point	145 °C
Flammability	Non-flammable.
Explosive limits	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable

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Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
pH	Not available
pH solution	Not available
Viscosity, kinematic	Not applicable
Viscosity, dynamic	> 100000 cP
Solubility	Material insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	5.44 hPa
Vapour pressure at 50 °C	Not available
Density	1.71
Relative density	Not available
Relative vapour density at 20 °C	Not applicable
Particle size	Not available
Particle size distribution	Not available
Particle shape	Not available
Particle aspect ratio	Not available
Particle aggregation state	Not available
Particle agglomeration state	Not available
Particle specific surface area	Not available
Particle dustiness	Not available

## 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

### Additional information

Solid suspension - classified as non-flammable according to results from Test N.1 test method for readily combustible solids.

## 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.

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**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

<b>STYRENE (100-42-5)</b>	
LD50 oral rat	5000 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	11.8 mg/l Source: ECHA
<b>2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE (109-16-0)</b>	
LD50 oral rat	10837 mg/kg Source: NLM, THOMSON
<b>METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL (27813-02-1)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

<b>STYRENE (100-42-5)</b>	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity	Suspected of damaging the unborn child.
STOT-single exposure	Not classified
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

<b>STYRENE (100-42-5)</b>	
STOT-repeated exposure	Causes damage to organs (hearing organs) through prolonged or repeated exposure.

<b>2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE (109-16-0)</b>	
LOAEC (inhalation, rat, gas, 90 days)	350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

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NOAEC (inhalation, rat, gas, 90 days)	100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:
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<b>METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL (27813-02-1)</b>	
LOAEC (inhalation, rat, gas, 90 days)	350 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, gas, 90 days)	100 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Remarks on results: other:

Aspiration hazard

Not classified

<b>EPOXY ACRYLATE BASE COMP. A</b>	
Viscosity, kinematic	Not applicable

## 11.2. Information on other hazards

## 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

**Not rapidly degradable**

<b>2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE (109-16-0)</b>	
LC50 - Fish [1]	16.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

<b>METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL (27813-02-1)</b>	
LC50 - Fish [1]	233.174 mg/l Source: ECOSAR
EC50 - Crustacea [1]	> 143 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 130 mg/l
EC50 72h - Algae [1]	> 97.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	45.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	45.2 mg/l

### 12.2. Persistence and degradability

No additional information available.

### 12.3. Bioaccumulative potential

<b>STYRENE (100-42-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.95 Source: HSDB, ChemIDplus

<b>2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE (109-16-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.88 Source: ChemIDplus

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<b>METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL (27813-02-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.48

**12.4. Mobility in soil**

No additional information available.

**12.5. Results of PBT and vPvB assessment**

No additional information available.

**12.6. Endocrine disrupting properties**

No additional information available.

**12.7. Other adverse effects**

No additional information available.

**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
<b>14.1. UN number or ID number</b>				
Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2. UN proper shipping name</b>				
Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.3. Transport hazard class(es)</b>				
Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.4. Packing group</b>				
Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.5. Environmental hazards</b>				
Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
No 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.

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### **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**

#### **15.1.1. EU-Regulations**

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

Contains no REACH substances with Annex XVII restrictions

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

Contains no REACH Annex XIV substances

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

Contains no substance on the REACH candidate list

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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

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

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

##### **Ozone Regulation (1005/2009)**

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

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

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 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 drug precursors)

#### **15.1.2. National regulations**

No additional information available

### **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
EC-No.	European Community number

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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
PBT	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

### Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
EUH208	Contains 2,2'-ETHYLENEDIOXYDIETHYL DIMETHACRYLATE (109-16-0), METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL (27813-02-1). May produce an allergic reaction.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

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STOT RE 1

Specific target organ toxicity – Repeated exposure, Category 1

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.

### **Modifications compared to the previous SDS:**

This file corresponds to the first version prepared in accordance with Regulation (EU) No. 878/2020, according to the update provided by the supplier.

### **Methods used for the purposes of classification of the mixture according to Regulation 1272/2008 (CLP):**

Calculation performed from the classification of components.

### **Recommendations for training workers:**

It is advisable to basic training regarding occupational health and safety for proper handling.

### **Legal disclaimer:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

The information in this SDS is based on current knowledge and on current EU and national laws, as the working conditions of users are beyond our knowledge and control.

The product should not be used for purposes other than those specified, without an instruction in writing, of its handling. It is always the responsibility of the user to take appropriate measures in order to meet the requirements established by current legislation.