

# SAFETY DATA SHEET

according to Commission Regulation (EC) 1907/2006

## AP7013\_50 SHIELDIT INNOVATIONS Premium, 50 ml

Creation date	11th November 2021		
Revision date	17th March 2023	Version	1.3

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

- 1.1. Product identifier** AP7013\_50 SHIELDIT INNOVATIONS Premium, 50 ml  
Substance / mixture mixture  
Other mixture names
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Easy-clean coating for plastic, metal and stainless steel.  
**Mixture uses advised against**  
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
Name or trade name Shieldit Innovations LLC  
Address 16192 Coastal Highway  
LEWES, Delaware 19958  
United States  
Phone +1 (540) 480-0505  
E-mail support@shielditinnovations.com  
**Competent person responsible for the safety data sheet**  
Name Shieldit Innovations  
E-mail support@shielditinnovations.com
- 1.4. Emergency telephone number**  
Emergency Telephone of Company/Undertaking +1 (540) 480-0505 (08:00am – 4:00pm)  
Counselling centre for poisoning +1 (800) 222-1222  
(American Association for Poison Controls Centres)

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008 (CLP)**  
Flam. Liq 2; H225 Highly flammable liquid and vapour.  
Eye Irrit. 2; H319 Causes serious eye irritation.

#### 2.2. Label elements



#### Labelling according to Regulation (EC) No 1272/2008

##### Signal word

Danger

##### Hazard statements

H225	Highly flammable liquid vapour.
H319	Causes serious eye irritation.

##### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with national regulation.

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### 2.3. Other hazards

#### PBT/vPvB

No information.

#### Endocrine disrupting properties

No information.

#### Additional information

No information.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

For mixtures see 3.2.

### 3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

CAS EC Index Reach	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	Note
64-17-5 200-578-6 603-002-00-5 01-2119457610-43	ethanol	>94	Flam. Liq. 2; H225 Eye Irrit. 2; H319	/	/
78-93-3 201-159-0 606-002-00-3 01-2119457290-43	butanone	<5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	/	/
78-10-4 201-083-8 014-005-00-0	tetraethyl silicate	<4	Flam. Liq. 3; H226 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335	/	/
7664-93-9 231-639-5 016-020-00-8 01-2119458838-20	sulfuric acid	<0,1	Met. Corr. 1; H290 Skin Corr. 1A; H314	Skin Corr. 1A; H314; C $\geq$ 15% Skin Irrit. 2; H315; 5% $\leq$ C < 15% Eye Irrit. 2; H319; 5% $\leq$ C < 15%	/

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. If symptoms develop and persist, seek medical attention.

#### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

#### If in eyes

If the patient is wearing contact lenses, remove them immediately. Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

#### If swallowed

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DO NOT INDUCE VOMITING! In case of doubt or if feeling unwell seek medical help. Show the physician the safety data sheet or label. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

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

#### If inhaled

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

#### If on skin

Contact with skin may cause irritation (redness, itching).

#### If in eyes

Redness, tearing, pain.

#### If swallowed

May cause abdominal discomfort. May cause nausea/vomiting and diarrhea.

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

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

#### Unsuitable extinguishing media

Water - full jet.

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

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

Sulphur oxides (SO<sub>x</sub>).

### 5.3. Advice for firefighters

#### Protective actions

Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area. No action shall be taken involving any personal risk or without suitable training.

#### Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

#### Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

##### Protective equipment

Use personal protective equipment (Section 8).

##### Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

##### Emergency Procedures

Prevent access to unprotected personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

##### For emergency responders

Use personal protective equipment.

### 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

### 6.3. Methods and material for containment and cleaning up

#### For containment

Stem the spill if this does not pose risks.

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### For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use spark-proof tools. Ventilate the premises. Use only explosion-proof instruments and equipment. Prevent release into the sewer, water, basements or confined areas.

### Other information

No information.

### 6.4. Reference to other sections

See the Section 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Measures to prevent fire

Ensure adequate ventilation. Take precautionary measures against static discharges. Keep away from sources of ignition - no smoking. Use spark-proof tools. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

#### Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols

#### Measure to protect environment

Do not discharge in drains, surface water and soil. After use immediately close container tightly.

#### Other measures

No information.

#### Advice on general occupational hygiene

Do not eat, drink or smoke while working. Do not breathe vapours/mist. Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

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

#### Technical measures and storage conditions

Store in accordance with local regulations. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances. Keep away from sources of ignition - no smoking. Keep in a cool, dry and well ventilated place.

#### Packaging materials

Store only in original container.

#### Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store unlabelled containers.

#### Storage class

No information.

#### Further information on storage conditions

No information.

### 7.3. Specific end use(s)

No information.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure limit values

Name	mg/m <sup>3</sup>	ml/m <sup>3</sup>	Short-term value mg/m <sup>3</sup>	Short-term value ml/m <sup>3</sup>	Remark	Biological Tolerance Values
Butan-2-one (methyl ethyl Ketone) (78-93-3)	600	200	899	300	Sk, BMGV	70 µmol butan-2-one/L in urine - Post shift 70 µmol butan-2-one/L in urine - Post shift
Ethanol (64-17-5)	1920	1000	/	/	/	/

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Sulphuric acid (mist) (7664-93-9)	0.05	/	/	/	The mist is defined as thoracic fraction

### Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

### DNEL/DMEL values

#### For product

No information.

#### For components

No information.

### PNEC values

#### For product

No information.

#### For components

No information.

## 8.2. Exposure controls

### Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Do not breathe vapours/aerosols. Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes.

#### Structural measure to prevent exposure

No information.

#### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

### Personal protective equipment

#### Eye/face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

#### Hand protection

Protective gloves (BS EN ISO 374). The penetration time is determined by the protective glove manufacturer and must be observed. Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

### Appropriate materials

#### Skin protection

Cotton protective clothing and shoes that cover the entire foot (BS EN ISO 20345:2022).

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387).

### Thermal hazards

No information.

### Environmental exposure controls

#### Substance/mixture related measures to prevent exposure

No information.

#### Instruction measures to prevent exposure

No information.

#### Organisational measures to prevent exposure

No information.

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### Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

## SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	colourless
Odour	characteristic
Odour threshold	data not available
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	< 14 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	ca. 7
Viscosity	data not available
Solubility	data not available
Partition coefficient	data not available
Vapour pressure	data not available
Density and/or relative density	Relative density: 0.794 g/cm <sup>3</sup>
Relative vapour density	data not available
Particle characteristics	data not available

### 9.2. Other information

No information.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

### 10.4. Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

### 10.5. Incompatible materials

Oxidants.

### 10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### (a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
butanone	oral	LD <sub>50</sub>	rat	/	> 2193 mg/kg	OECD 423	/
butanone	inhalation	LC <sub>50</sub>	rat	4 h	34 mg/l	/	/
butanone	dermal	LD <sub>50</sub>	rabbit	/	> 5000 mg/kg	OECD 402	/

##### Additional information

##### (b) Skin corrosion/irritation

No information.

##### (c) Serious eye damage/irritation

No information.

##### Additional information

Causes serious eye irritation.

##### (d) Respiratory or skin sensitisation

No information.

##### Additional information

This product is not classified as sensitising

##### (e) (Germ cell) mutagenicity

No information.

##### (f) Carcinogenicity

No information.

##### (g) Reproductive toxicity

No information.

##### Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

##### (h) STOT - single exposure

No information.

##### Additional information

STOT SE (single exposure): Not classified.

##### (i) STOT - repeated exposure

No information.

##### Additional information

STOT RE (repeated exposure): Not classified.

##### (j) Aspiration hazard

No information.

##### Additional information

Aspiration hazard: Not classified

##### Symptoms related to the physical, chemical and toxicological characteristics

No information.

##### Interactive effects

No information.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

No information.

##### Other information

No information.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Acute (short-term) toxicity

No information.

##### Chronic (long-term) toxicity

No information.

#### 12.2. Persistence and degradability

##### Abiotic degradation, physical- and photo-chemical elimination

No information.

##### Biodegradation

No information.

#### 12.3. Bioaccumulative potential

##### Partition coefficient

No information.

##### Bioconcentration factor (BCF)

No information.

#### 12.4. Mobility in soil

##### Known or predicted distribution to environmental compartments

No information.

##### Surface tension

No information.

##### Adsorption/desorption

No information.

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

No evaluation.

#### 12.6. Endocrine disrupting properties

No information.

#### 12.7. Other adverse effects

No information.

#### 12.8. Additional information

##### For product

Product is not classified as dangerous for environment. Do not allow to reach ground water, water courses or sewage system. Water hazard class 1 (self-assessment): slightly hazardous for water.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Product / Packaging disposal

##### Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Do not allow product to reach drains/sewage systems.

##### Waste codes / waste designations according to LoW

No information.

##### Packaging

Dispose of in accordance with applicable waste disposal regulation. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapour.

##### Waste codes / waste designations according to LoW

No information.

##### Waste treatment-relevant information

No information.

##### Sewage disposal-relevant information

No information.



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### Other disposal recommendations

No information.

### SECTION 14: Transport information

ADR/RID	IMDG	IATA	ADN
<b>14.1. UN number or ID number</b>			
UN 1170	UN 1170	UN 1170	UN 1170
<b>14.2. UN proper shipping name</b>			
ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>14.3. Transport hazard class(es)</b>			
3	3	3	3
			
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
NO	NO	NO	NO
<b>14.6. Special precautions for user</b>			
Limited quantities 1 L Special provisions 144, 601 Packing Instructions P001, IBC02, R001 Transport category 2 Tunnel restriction code (D/E)	Limited quantities 1 L EmS F-E, S-D Flash point 14 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y341 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 1 L Packing Instructions (Pkg Inst) 353 Maximum Net Quantity/Package (Max Net Qty/Pkg) 5 L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst) 364 Cargo Aircraft Only, Maximum Net Quantity/Package (CAO, Max Net Qty/Pkg) 60 L Special provisions A3 Excepted quantities E2 ERG code 3L	Limited quantities 1 L
<b>14.7. Maritime transport in bulk according to IMO instruments</b>			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

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### SECTION 15: Regulatory information

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

#### Regulation EC 648/2004 on detergents

No information.

#### Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### SECTION 16: Other information

#### Indication of changes

2.2 Label elements 8.2 Exposure controls

#### Key literature references and sources of data

No information.

#### Abbreviations and acronyms

ATE	Acute Toxicity Estimate
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN	European Committee for Standardisation C&L - Classification and Labelling
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS#	Chemical Abstracts Service number
CMR	Carcinogen, Mutagen, or Reproductive Toxicant
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
DU	Downstream User
EC	European Community
ECHA	European Chemicals Agency
EC-Number	EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA	European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC	European Economic Community
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of notified Chemical Substances
EN	European Standard
EQS	Environmental Quality Standard
EU	European Union
Euphrac	European Phrase Catalogue
EWC	European Waste Catalogue (replaced by LoW – see below)
GES	Generic Exposure Scenario
GHS	Globally Harmonized System
IATA	International Air Transport Association

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ICAO-TI	Technical Instructions for the Safe Transport of Dangerous Goods by Air		
IMDG	International Maritime Dangerous Goods		
IMSBC	International Maritime Solid Bulk Cargoes		
IT	Information Technology		
IUCLID	International Uniform Chemical Information Database		
IUPAC	International Union for Pure Applied Chemistry		
JRC	Joint Research Centre		
Kow	Octanol-water partition coefficient		
LC50	Lethal Concentration to 50 % of a test population		
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)		
LE	Legal Entity		
LoW	List of Wastes (see <a href="http://ec.europa.eu/environment/waste/framework/list.htm">http://ec.europa.eu/environment/waste/framework/list.htm</a> )		
LR	Lead Registrant		
M/I	Manufacturer / Importer		
MS	Member States		
MSDS	Material Safety Data Sheet		
OC	Operational Conditions		
OECD	Organization for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
OJ	Official Journal		
OR	Only Representative		
OSHA	European Agency for Safety and Health at work		
PBT	Persistent, Bioaccumulative and Toxic substance		
PEC	Predicted Effect Concentration		
PNEC(s)	Predicted No Effect Concentration(s)		
PPE	Personal Protection Equipment		
(Q)SAR	Qualitative Structure Activity Relationship		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
RIP	REACH Implementation Project		
RMM	Risk Management Measure		
SCBA	Self-Contained Breathing Apparatus		
SDS	Safety data sheet		
SIEF	Substance Information Exchange Forum		
SME	Small and Medium sized Enterprises		
STOT	Specific Target Organ Toxicity		
(STOT) RE	Repeated Exposure		
(STOT) SE	Single Exposure		
SVHC	Substances of Very High Concern UN - United Nations		
vPvB	Very Persistent and Very Bioaccumulative		
<b>List of relevant H phrases</b>			
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H290	May be corrosive to metals.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H373	May cause damage to organs through prolonged or repeated exposure.		

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### Statement

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.