



**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

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

**1.1. Product identifier**

**Trade name/designation:**

LAMILUXPlan Coils and sheet Mould material consisting of unsaturated polyester resin, vinylester resin and glass fibers

**Additional information:**

Article (Art 3 (3) REACH)

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

**Relevant identified uses:**

**Article categories [AC]**

**AC 13:** Plastic articles

**1.3. Details of the supplier of the safety data sheet**

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**LAMILUX Composites GmbH**

Zehstraße 2

95111 Rehau

Germany

**Telephone:** +49 (0) 9283 / 595 0

**Telefax:** +49 (0) 9283 / 595 290

**E-mail:** information@lamilux.de

**Website:** www.lamilux.de

**E-mail (competent person):** marcus.seitz@lamilux.de

**1.4. Emergency telephone number**

Lamilux Composites GmbH, +49 9283 595-224 (Only available during office hours.)

**SECTION 2: Hazards identification**

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

**Classification according to Regulation (EC) No 1272/2008 [CLP]-:**

not determined

**Additional information:**

Classification according to Regulation (EC) No 1272/2008 [CLP]-: -

Additional information: This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws.

**2.2. Label elements**

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

**Hazard components for labelling:**

-; -

**Special rules for supplemental label elements for certain mixtures:**

-

**2.3. Other hazards**

**Adverse physicochemical effects:**

No risks worthy of mention.

**Adverse human health effects and symptoms:**

Exposure to dust in excess of TLV (Treshhold Limit Value) may result in skin or upper respiratory tract irritation. Pre-existing skin or respiratory disorders may cause more susceptibility to these effects.

**Adverse environmental effects:**

No risks worthy of mention.



#### Other adverse effects:

Dust can create potentially explosive mixtures of dust and air. In case of mechanical processing protection measures are to be taken with regard to dust generation.  
Fine particles may possibly short time irritate the eyes, skin and respiratory tract.

### SECTION 3: Composition / information on ingredients

#### 3.2. Mixtures

##### Description:

LAMILUX products are mixtures formed as solid sheets composed of some or all of the following:

glass fibres, titanium dioxide and pigment embedded in a cured styrenated thermoset polyester matrix.

##### Additional information:

Mixture of polymers/elastomers/thermosets without hazards for human health or environment.

##### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008- [CLP]	Concentration
<b>CAS No.:</b> 13463-67-7 <b>EC No.:</b> 236-675-5 <b>REACH No.:</b> 01-2119489379-17	<b>titanium dioxide</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]-.	< 10 weight-%

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

##### Following inhalation:

Inhalation of dust/particles  
Provide fresh air.

##### In case of skin contact:

No special measures are required.  
In case of skin contact: Wash with plenty of soap and water.

##### After eye contact:

particulates and dust:  
Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

##### After ingestion:

No special measures are required.

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

No information available.

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

No information available.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Water Carbon dioxide (CO2) Foam alcohol resistant foam Dry extinguishing powder

##### Unsuitable extinguishing media:

none

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

The product in the delivered form is not dust explosion capable; during mechanical processing the accumulation of fine dust however leads to the danger of dust explosion.

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2) Styrene carbon black., Gases/vapours, toxic

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.



## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Personal precautions:**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Remove persons to safety.

For emergency responders :  
No special measures are required.

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

No special environmental measures are necessary.

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

**For cleaning up:**

Take up mechanically.  
Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

No data available

### 6.5. Additional information

See protective measures under point 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

When using do not eat, drink, smoke, sniff.  
Wash hands before breaks and after work.  
While mechanical processing wear personal protection equipment and a dust mask.

**Fire prevent measures:**

The product in the delivered form is not dust explosion capable; during mechanical processing the accumulation of fine dust however leads to the danger of dust explosion.

Dust can form an explosive mixture with air.  
Ignition of air/dust mixtures is possible due to welding or grinding (angle grinders, welding sparks or grinding sparks).

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

**Requirements for storage rooms and vessels:**

No special measures are required.

**Further information on storage conditions:**

No special measures are required.

### 7.3. Specific end use(s)

**Recommendation:**

refer to chapter 1.



## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DFG (DE)	titanium dioxide CAS No.: 13463-67-7	① 0.3 mg/m <sup>3</sup> multipliziert mit der Materialdichte ② 2.4 mg/m <sup>3</sup> multipliziert mit der Materialdichte ⑤ (alveolengängige Fraktion)

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
titanium dioxide CAS No.: 13463-67-7	10 mg/m <sup>3</sup>	① DNEL worker ② inhalative, long-term, systemic

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

dust formation : Dust protection eye glasses

##### Skin protection:

Hand protection: DIN EN 388

Suitable material: Required properties:

dust-tight cut-resistant

Thickness of the glove material: not applicable

Breakthrough time (maximum wearing time): not applicable

##### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Recommended respiratory protection articles Particle filter device (DIN EN 143) FFP1

##### Other protection measures:

General health and safety measures: Do not wear gloves near rotary machines and tools.

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** solid , flat/plates

**Colour:** diverse

**Odour:** Styrene

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>		not applicable	
Melting point	<i>not determined</i>		not applicable	
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>		not applicable	
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not determined</i>		not applicable	
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	> 450			



parameter		at °C	Method	Remark
Upper/lower flammability or explosive limits	<i>not determined</i>		not applicable	
Vapour pressure	<i>not determined</i>		not applicable	
Vapour density	<i>not determined</i>			
Density	1.2 - 1.4 g/cm <sup>3</sup>			
Bulk density	<i>not determined</i>		not determined	
Water solubility	0 g/l			
Partition coefficient: n-octanol/ water	<i>not determined</i>		not applicable	
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

## 9.2. Other information

Odour threshold: not determined

Further details see datasheet: Information about mechanical, thermal, electrical and optical properties, heat transition, behaviour in fire

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Heat

Take precautionary measures against static discharges.

### 10.5. Incompatible materials

Solvent (Acetone, Benzene, Methanol, Ethyl acetate, ...)

Further information see datasheet: Information about the chemical resistance of LAMILUXplan

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

Decomposition products in case of fire: see section 5.

### Further information

No special measures are required.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity:

No information available.

#### Acute dermal toxicity:

No information available.

#### Acute inhalation toxicity:

No information available.

#### Skin corrosion/irritation:

not applicable

#### Serious eye damage/irritation:

not applicable

#### Respiratory or skin sensitisation:

not sensitising.

#### Germ cell mutagenicity:

not applicable

#### Carcinogenicity:

not applicable

#### Reproductive toxicity:

not applicable



**STOT-single exposure:**

not applicable

**STOT-repeated exposure:**

not applicable

**Aspiration hazard:**

not applicable

**Additional information:**

Specific symptoms in animal studies: No information available.

Repeated dose toxicity (subacute, subchronic, chronic): No information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Aquatic toxicity:**

not applicable

**Effects in sewage plants:**

Mechanical separation in a suitable sewage plant is possible.

**12.2. Persistence and degradability**

**Additional information:**

Further ecological information: not applicable

**12.3. Bioaccumulative potential**

**Accumulation / Evaluation:**

not applicable

**12.4. Mobility in soil**

not applicable

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

not applicable

**12.6. Other adverse effects**

Further ecological information: not applicable

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Consult the appropriate local waste disposal expert about waste disposal.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Control report for waste code/ waste marking according to EAKV:

**13.1.1. Product/Packaging disposal**

Waste codes/waste designations according to EWC/AVV

**Waste code product:**

20 01 39	plastics
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**Waste treatment options**

**Appropriate disposal / Package:**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**SECTION 14: Transport information**

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)	
<b>14.1. UN-No.</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	
<b>14.2. UN proper shipping name</b>			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	



Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)	
<b>14.3. Transport hazard class(es)</b>			
not relevant			
<b>14.4. Packing group</b>			
not relevant			
<b>14.5. Environmental hazards</b>			
not relevant			
<b>14.6. Special precautions for user</b>			
not relevant			

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
not relevant

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

No data available

#### 15.1.2. National regulations

 [DE] National regulations

#### Water hazard class (WGK)

##### WGK:

keine Angabe

### 15.2. Chemical Safety Assessment

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

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### 16.2. Abbreviations and acronyms

No data available

### 16.3. Key literature references and sources for data

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

Commission Regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008

Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

#### Classification according to Regulation (EC) No 1272/2008 [CLP]-:

not determined

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available

### 16.6. Training advice

No data available



### **16.7. Additional information**

Voluntary safety information following the Safety Data Sheet format according to Regulation (EC) No. 1907/2006 (REACH) (

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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