

## 1. General information on material, composition and company details

### 1.1 Product specification:

Trade name: **Klinger Mica Laminate**

Types/identification:

Foil Type MilamH

Laminate Type MilamHL

Laminate Type MilamPSS130, MilamPSS150, MilamPSS200

### 1.2 Details of the manufacturer:

Manufacturer/supplier:

**Klinger AG Egliswil, Industrie Nord, CH-5704 Egliswil**

**Phone: +41 (0)62 769 30 30,**

**Fax: +41 (0)62 769 30 33**

**Emergency phone number: +41 (0)62 769 30 30**

## 2. Composition/specification of the components

### 2.1 Chemical characteristics:

Mica, silicone bonded.

at PSS, Insert stainless steel AISI316

### 2.2. Hazardous components:

none, according to the components included in EC Standard 67/548/EEC

CAS#	Identification according to EC directive	Content	Unit	Reference code	

### Additional remarks:

None

## 3. Particular dangers

Particular dangers for human beings and environment:

Mineral fibres may cause sensitisation.

Protective gloves are recommended for handling of reinforced laminates with metal inserts prevent laceration.

## 4. First aid measures

General comment:	none
Inhalation:	not applicable
Skin contact:	not applicable
Eye contact:	not applicable.
Ingestion:	induce vomiting.
Medical indications:	none

## 5. Measures against fire

Suitable extinguishing agents:

Foam, refractory sand, carbon dioxide, water sprinkler

Unsuitable extinguishing agents for safety reasons:

none

Particular dangers arising from the material itself, the treatment thereof and its decomposition products or combustion gases:

none

Special protective equipment::

none

## 6. Measures in case of unintentional release

Personal precautionary measures:

not applicable

Ecological protective measures:

not applicable

Method of cleaning:

not applicable

Additional remarks:

Improper use and use other than in compliance with the stipulations, e.g. grinding, may produce fine dust. In this case suction and filtration facilities are imperative.

## 7. Handling and storage

### 7.1 Handling

Safety instructions for handling:

Protective gloves are recommended for handling of reinforced laminates with metal inserts prevent laceration.

Safety instructions to prevent fire and explosion:

none

### 7.2 Storage

Requirements for store room and containers:

Store in dry area

Safety instructions for storage together with other materials (incompatibility):

none

Other storage conditions:

none

Storage class:

not applicable

## 8. Permissible exposure limits and personal protective equipment

### 8.1 Additional remarks on the lay-out of technical installations

Thorough ventilation and suction facilities at the workplace are imperative to avoid dust generation while treating the material mechanically.

### 8.2 Components whose exposure limits at the workplace must be observed

CAS#	Chemical designation of the material	Type of limit	Limit value	Unit
12001-26-2	Mica	MAK	3	mg/m <sup>3</sup>

### 8.3 Personal protective kit

Respiratory protection:

Mask Mod. P-1 in case of working dust accumulation

Hand protection:

Gloves

Eye protection:

Safety glasses in case of dust accumulation

Physical protection:

none

Other safety and hygienic measures:

Wash hands before meals and before smoking.

## 9. Physical and chemical properties

### 9.1 Appearance

Form: solid sheet

Colour: light to dark

Odour: a faint solvent odour may be detectable with the laminates HL and PSS.

### 9.2 Safety data

Factors	Value/range of application	Unit	Process
Softening point:	not applicable		
Boiling point/boiling range:	not applicable		
Melting point/melting range:	not applicable		
Flash point:	not applicable		
Inflammability:	not applicable		
Inflammation point:	not applicable		
Spontaneous ignition:	none		
Fire stimulating properties:	on first exposal to extreme high temperature, very little gas from the binder may ignite briefly.		
Danger of explosion:	not applicable		
Limits of explosion	lower limit		
	upper limit		
Vapour pressure:	at 20 °C		
Density:	at 20 °C		
pH-value:	neutral		
Distribution coefficient (n-octanol/water)	not applicable		
Viscosity:	not applicable		
Others:	none		

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## 10. Stability and reactivity

**Stability:**

binder undergoes changes of state at about 250°C.

**Conditions to avoid:**

none

**Materials to avoid:**

none

**Hazardous decomposition products:**CO, CO<sub>2</sub>, SiO<sub>2</sub> from binder

When there is a lack of oxygen, a small amount of formaldehyde and its polymerisation products will be formed as intermediate products.

**Others:**

None

## 11. Toxicity

Delayed and immediate effects from short- and long-term exposure with mica dust.

skin contact: mica dust can involve irritation

eye contact: mica dust can involve irritation

inhalation mica dust can involve irritation

ingestion during mechanical transformations, silicon contacting mica dust can be formed.

## 12. Ecology

No negative ecological effects are known.

## 13. Waste management

**13.1 Product****Recommendation:**

No special measures required, apply state, federal or local regulations.

**13.2 Contaminated packaging****Recommendation:**

No special measures required, apply state, federal or local regulations.

## 14. Transportation

none

## 15. Regulations

### 15.1 Identification according to the EC directive

Reference code and danger indication of the product:

No designation requirement

Dangerous components which are named on the label:

None

### 15.2 National regulations

None

### 15.3 Further informations

None

## 16. Others

Further information:

The information given in this data sheet is to the best of our knowledge and belief.

The statements made describe our products with regard to the safety requirements but do not guarantee the product properties nor are they legally binding.

Contact person:

Mr. Dr. U. Wegmann

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Signed for and on behalf of  
KLINGER AG EGLISWIL

Dr. U. Wegmann, Managing Director  
duly authorized