



# Safety datasheet

Revision: 8.12.2015, version: 2

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

### 1.1 Product identifier

Name: U1000, U1010, U1110, U1120  
Identification no: -  
REACH - registration no: -

### 1.2 Relevant identified uses of the substances or mixture and uses advised against

Pultruded fiberglass reinforced polyurethane articles. The product is used as a semi-manufacture in many industries.

### 1.3 Details of the supplier of the safety data sheet

Fiberline Building Profiles A/S  
Strevelinsvej 38-40  
7000 Fredericia  
Denmark  
Tlf: (+45) 36 38 81 00  
E-mail: Customersupport@fiberline.com

### 1.4 Emergency telephone number

Tel: + 45 82 12 12 12 - Poison Center (DK), Bispebjerg Hospital (24hrs open)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to EU Regulation 1272/2008: No classification

### 2.2 Label elements

Articles manufactured by fiberglass reinforced polyurethane are non-hazardous products according to Regulation 1272/2008 Classification, Labelling and Packaging of Substances and Mixtures.

### 2.3 Other hazards

Physical/chemical effects: Dust from grinding and cutting in the profile may form explosive mixture in air. By intense heating some decomposition of the material may occur, leading to splitting off dangerous gases and vapours.  
Human health effects: Dust from grinding and cutting in the profile may cause irritation of the mucous membranes of the eye and respiratory passages and may cause itching and coughing.  
Environmental effects: -

The meaning of abbreviations used in section 2 and 3, see section 16.

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

The composite material, fiberglass reinforced polyurethane is produced of fiberglass and two components, a diisocyanate and a polyol. Both these components are individually classified as hazardous substances under EC regulations. By mixing a reaction occurs and the components harden and become a rigid article.

### Comment on ingredients

SVHC List (Candidate List of Substances of Very High Concern for authorisation):

U1110, U1120: Contain no or less than 0.1% of the substances from the list.

U1010: Contains 0.2-0.6 % 2-ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoat (CAS: 15571-58-1), from the SVHC list.

U1000 is an outdated generic product code. If in doubt about the specific code for your product, please contact Fiberline.

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**SECTION 4. First aid measures**

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**4.1 Description of first aid measures**

General:	-
Skin:	In case of contact with possible dust from grinding/cutting in the product: Remove contaminated clothing. Wash the skin thoroughly with water and soap. In case of itching, redness and irritated skin get medical advice/attention.
Eye:	In case of contact with dust from grinding/cutting in the product or exposure to vapour and smoke from possible intense heating. Open eyes widely and rinse cautiously with plenty of water for at least 15 minutes. Remove contact lenses and continue rinsing. Use an eyewash bottle. If irritation persists, get medical advice/attention.
Inhalation:	In case of inhalation of vapours, smoke and dust from grinding/cutting in the product or from intensive heating, go outside to breathe fresh air. Get medical advice/attention if you feel unwell.
Ingestion:	In case of ingestion of dust from e.g. grinding/cutting in the product, clean mouth with water and drink afterwards plenty of water. Get medical advice/attention if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

Causes irritation of the mucous membranes of the eye and respiratory passages if exposed to dust.

**4.3 Indication of any immediate medical attention and special treatment needed**

No specific information

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**SECTION 5: Fire fighting measures**

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**5.1 Extinguishing media**

Use water mist, foam, powder or carbon dioxide

**5.2 Special hazards arising from the substance or mixture**

In case of intense heating and fire, incomplete combustion may form toxic gases e.g. carbon dioxide, carbon monoxide, hydrogen cyanide, nitrogen oxides, and isocyanates.

**5.3 Advice for fire fighters**

Wear self-contained breathing apparatus and protective suit.

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**SECTION 6: Accidental release measures**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Not relevant, as the product is large units of solid substance.

**6.2 Environmental precautions**

Not relevant, as the product is large units of solid substance.

**6.3 Methods and material for containment and cleaning up**

Not relevant, as the product is large units of solid substance.

**6.4 Reference to other sections**

Use of personal protective equipment, see section 8 and disposal, see section 13.

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**SECTION 7: Handling and storage**

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**7.1 Precautions for safe handling**

Avoid breathing dust, vapours, and gases from after-treatment processes like e.g. grinding, cutting, drilling etc. Ensure well-ventilated areas for those processes. Use of personal protective equipment, see section 8. Be aware that grinding dust may cause dust explosions. Therefore, ensure good cleaning standard in connection with dusting processes, so that dust does not accumulate on horizontal surfaces. Use sparkless tools and explosion safe equipment.

**7.2 Conditions for safe storage, including any incompatibilities**

Avoid overheating.

**7.3 Specific end use**

No specific information.

**SECTION 8: Exposure controls /personal protection****8.1 Control parameters**

National occupational exposure limit values:

Substance	Dust, inhalable			
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
<u>Austria</u>		10		20
<u>Belgium</u>		10		
Denmark		10		20
<u>France</u>		10		
<u>Germany (AGS)</u>		10 (1) (2) (3)		20 (1) (2) (3)
<u>Germany (DFG)</u>		4		
<u>Hungary</u>		10		
<u>Ireland</u>		10		
<u>Singapore</u>		10		
<u>Spain</u>		10		
Sweden		10		
<u>Switzerland</u>		10		
<u>USA - OSHA</u>		15		
	Remarks			
France	Bold type: Restrictive statutory limit values			
Germany (AGS)	(1) Insoluble particulates (2) not applicable for ultra-fine dusts and dusts with specific toxicity (3) the limit value is a general upper limit for technical measures, as long as no specific regulations for toxic or carcinogenic substances are available			
Germany (DFG)	Long term exposure level, insoluble particulates			

  

Substance	Dust, respirable			
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
<u>Austria</u>		5		10
<u>Belgium</u>		3		
<u>France</u>		5 respirable aerosol		
<u>Germany (AGS)</u>		1,25 (1)(2)(3)(4)(5)		
<u>Germany (DFG)</u>		1,5		
<u>Hungary</u>		6		
<u>Ireland</u>		4		
<u>Spain</u>		3		
Sweden		5		
<u>Switzerland</u>		3		
<u>USA - OSHA</u>		5		

	Remarks
Austria	STV 15 minutes average value
France	Bold type: Restrictive statutory limit values
Germany (AGS)	(1) Insoluble particulates (2) not applicable for ultra-fine dusts and dusts with specific toxicity (3) the limit value is a general upper limit for technical measures, as long as no specific regulations for toxic or carcinogenic substances are available (4) the limit value was derived for dusts with an average density of 2.5 mg/m <sup>3</sup> (5) at work areas where all technical and further measures are state of the art but the LV is still not adhered, the old LV can be applied for a transitional period until 31st December 2018 (8 h-LV: 3.0 mg/m <sup>3</sup> , 15 minutes average value: 6.0 mg/m <sup>3</sup> )
Germany (DFG)	Insoluble particulates

<b>Substance</b>	<b>Diisocyanate: Methylene bisphenyl isocyanate (MDI)*</b>			
	*During intense heating, decomposing of the material may release diisocyanate vapors.			
<b>CAS No.</b>	101-68-8			
	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
<u>Australia</u>	(1)			
<u>Austria</u>	0,005	0,05	0,01	0,1
<u>Belgium</u>	0,005	0,052		
<u>Canada - Ontario</u>	0,005		0,02 (1)	
<u>Canada - Québec</u>	0,005	0,051		
<u>Denmark</u>	0,005	0,05	0,01	0,1
<u>France</u>	0,01	0,1	0,02	0,2
<u>Germany (AGS)</u>		0,05 (1)		0,05 (1)(2)
				0,1 (1)(3)
<u>Germany (DFG)</u>		0,05 (1)		0,05 (1)(2)(3)
<u>Hungary</u>		0,05		0,05
<u>Ireland</u>		0,02 (1)		0,07 (1)(2)
People's Republic of China		0,05		0,1 (1)
<u>Poland</u>		0,05		0,2 (1)
<u>Singapore</u>	0,005	0,051		
<u>South Korea</u>	0,005	0,055		
<u>Spain</u>	0,005	0,052		
<u>Sweden</u>	0,002	0,03	0,005 (1)	0,05 (1)
<u>Switzerland</u>		0,02		0,02
<u>USA - NIOSH</u>	0,005	0,05	0,02 (1)	0,2 (1)
<u>USA - OSHA</u>			0,02	0,2
	Remarks			
Australia	(1) see isocyanates, all			
Canada - Ontario	(1) ceiling limit value			
Germany (AGS)	(1) Inhalable aerosol and vapour (2) 15 minutes reference period (3) Ceiling limit value			
Germany (DFG)	(1) Inhalable fraction and vapour (2) 15 minutes reference period (3) A momentary value of 0,1 mg/m <sup>3</sup> should not be exceeded.			

Ireland	(1) as NCO (2) 15 minutes reference period
People's Republic of China	(1) 15 minutes average value
Poland	(1) Ceiling value
Spain	sen
Sweden	(1) Ceiling limit value
USA - NIOSH	(1) Ceiling limit value (10 min)

## 8.2 Exposure controls

Engineering controls:	Ensure effective ventilation in post-processing areas. Provide access to water and eyewash bottle.
Respiratory protection:	In case it cannot be ensured that dust from post-processing are removed effectively through suction cleaning directly at source, wear particle filtrating respiratory equipment (P2/FFP2). If applied heating results in formation of vapours and waste gases one must wear a combination filter protecting against both organic and inorganic gases and vapours and particles (ABEK P2). If the respiratory equipment does not fit tightly to the face, due to the beard, face shape etc. and using the product for more than 3 hours total in a workday, the respiratory equipment must be air supplied.
Skin protection:	Wear working gloves to prevent glass fibre stinging/itching. In case of grinding and cutting, where dust may be generated, ensure that working clothes and working gloves sit tight to avoid skin contact with the dust.
Eye protection:	Wear safety glasses.
Body protection:	-
Others:	Wash hands before breaks and at the end of workday. Smoking, eating and drinking should be prohibited in the application area.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Solid heterogenic substance
Odour:	No data
Odour threshold	No data
pH:	NA
Melting point:	NA
Boiling point:	NA
Flash point:	NA
Evaporation rate:	NA
Flammability:	NA
Explosive limits:	NA
Vapour pressure:	NA
Vapour density:	NA
Relative density:	1.5-2.2 kg/l
Solubility- water:	Not soluble in water
Partition coefficient:	NA
Auto-ignition temperature:	No data
Decomposition temperature:	180-230 °C
Viscosity:	NA
Explosive properties:	Dust may form explosive mixture in air
Oxidising properties:	NA

### 9.2 Other information

No data

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Inert under ordinary conditions of use.

### 10.2 Chemical stability

Stable under ordinary conditions of use.

### 10.3 Possibility of hazardous reactions

No data

### 10.4 Conditions to avoid

Intense heating

### 10.5 Incompatible materials

No data

### 10.6 Hazardous decomposition products

In case of decomposition toxic gases such as carbon dioxide, carbon monoxide, hydrogen cyanide and nitrogen oxides and isocyanates may be generated.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Toxicological test      No data

Skin contact:              Dust from grinding and cutting processes may cause skin irritation with itching and blushing.

Eye contact:                Dust from grinding and cutting processes may cause eye irritation.

Inhalation:                Inhalation of dust generated by grinding and cutting in the fibreglass reinforced polyurethane irritates the mucous membranes of the upper respiratory tract and may cause coughing. Gasses and vapours generated by intense heating of the material, e.g. during cutting and drilling (smoke) are dangerous to the health and may among other things cause nausea and uneasiness.

Ingestion:                Not relevant as the products are large units of solid substances.

Carcinogenicity:        No data

Mutagenicity:            No data

Reproductive            No data

toxicity:

Sensitisation:            During intense heating decomposing of the material may release isocyanate vapours. These vapours are classified as allergenic by skin contact and inhalation.

STOT single:              Is not classified as specific target organ toxicant, single exposure.

STOT repeated:          Is not classified as specific target organ toxicant, repeated exposure.

## SECTION 12: Ecological information

### 12.1 Toxicity:

No data

### 12.2 Persistence and degradability

The product is very strong and durable and is virtually non-biodegradable.

### 12.3 Bio-accumulative potential

No data

### 12.4 Mobility in soil

The product is a solid substance. Dust is not soluble in water – not mobile in the environment.

### 12.5 Results of PBT and vPvB assessment

No data

**12.6 Other adverse effects**

No data

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**SECTION 13: Disposal considerations**

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**13.1 Waste treatment methods**

Dust and product residues must be disposed of in accordance with local authority requirements. Product residues do not constitute hazardous waste.

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**SECTION 14: Transport information**

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The product is not classified as dangerous in transport regulation (ADR, RID, IMDG, IATA).

**14.1 – 14.5 UN–no, UN proper shipping name, transport hazard class, packing group, environmental hazards**

Not dangerous goods.

**14.6 Special precautions for user**

None.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not dangerous goods

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**SECTION 15: Regulatory information**

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

None

**Approval**

Not relevant

**Use restriction – young people**

None

**Code no.**

Not relevant

**15.2 Chemical safety assessment**

No data.

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**SECTION 16: Other information**

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**Hazard statements, safety phrases and/or precautionary statements used in section 3:****Education and training**

The user must be given thorough instruction in the performance of their work with this material, the hazardous properties of the material, and the necessary safety measures.

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 subject to the product being used under normal conditions and as specified on the packaging or in relevant technical literature. Any other use of the product, e.g. in connection with other products or processes, is the responsibility of the user.