



**Safety data sheet in compliance with EC regulation no. 1907/2006**

Registered Trade Name: **BASWA Phon acoustic panels**  
product-no.: a011; a012; a013; a014

version: 01/2019  
revised on: 07.02.2019  
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**1. DESIGNATION OF MATERIAL OR PREPARATION AND TRADE NAME**

**1.1 Designation of material / preparation:**

Tiles made from creped fibreglass with high compression strength. Coated with an acoustically efficient plaster substrate sheet made out of a plastic-bonded expanded glass granulate.

**1.2 Application of material / preparation:**

Acoustic tiles for bonding to ceilings and walls.

**1.3 Distributor (Manufacturer/ Supplier):**

BASWA *acoustic* AG

**Street / p.o. box:**

Marmorweg 10

**National code/post code/location:**

CH-6283 Baldegg / Switzerland

**Telephone:** +41 41 914 02 22

**Fax:** +41 41 914 02 20

**E-Mail:** [info@baswa.com](mailto:info@baswa.com)

**Contact point for technical information:**

BASWA *acoustic* AG

E-mail: [msds@baswa.com](mailto:msds@baswa.com), telephone: +41 41 914 02 11

**1.4 Emergency number:**

**Swiss Toxicological Information Centre Zurich (24-h service):**

**Switzerland: 145**

**Worldwide: + 41 44 251 51 51**

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**2. POSSIBLE HAZARDS:**

**2.1 Classification:**

The product is not classified as a hazardous material. No indication of particular hazards must be given (98/24/EC).

**2.2 Additional hazardous indications for humans and the environment:**

Avoid dust formation at all costs. The product mechanically irritates the eyes and the skin.



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### 3. COMPOSITION/ PARTICULARS CONCERNING THE COMPONENTS

#### 3.1 Chemical Characterisation:

##### Tile component out of fibreglass:

Fibreglass composed of synthetically manufactured, non-directional, glassy silicate fibres (SiO<sub>2</sub>, CaO, MgO, Na<sub>2</sub>O, K<sub>2</sub>O, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub>) with a proportion of alkali and alkali-earth metal oxides (Na<sub>2</sub>O + K<sub>2</sub>O + CaO + MgO + BaO > 18 wt. - %).

**Material designation:** fibreglass  
**CAS-no.:** not allocated  
**EC-no.:** not allocated  
**Concentration:** > 90 %  
**Classification:** Xi; R38

**Material designation:** terpolymer phenol – urea formaldehyde phenolplast  
**CAS-no.:** not allocated  
**EC-no.:** not allocated  
**Concentration:** < 8 %  
**Classification:** not regulated

##### Tile component out of plaster substrate sheet:

Acoustically active plaster substrate sheet based on a plastic bonded expanded glass granulate, mineral filling (limestone) and various organic and inorganic additives.

The composition is primarily determined by the proportion of silicate glass:

SiO <sub>2</sub> :	50 %
Al <sub>2</sub> O <sub>3</sub> :	2 %
K <sub>2</sub> O:	< 1 %
Na <sub>2</sub> O:	<10 %
CaO	6 %
MgO	< 2 %

**Material designation:** plastic polymer based on acrylate /VAc / VeoVa®  
**CAS-no.:** not available  
**EC-no.:** not available  
**Concentration:** < 10 %  
**Classification:** non hazardous material

#### 3.2 Further ingredients:



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**Material(s) with a common threshold for exposure at the place of work:**

**PBT material(s):** none

**vPvB material(s):** none

**3.3 Additional indications:**  
none

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**4. FIRST AID MEASURES**

**4.1 Following contact with eyes:**

An immediate consultation with the physician is not absolutely necessary. Following contact with eyes flush copiously with water. Keep eyelids open for at least 10 minutes and flush. If symptoms develop consult an ophthalmologist.

**4.2 Following inhalation:**

Remove the casualty immediately away from exposure and bring into the fresh air. As a precaution consult a physician.

**4.3 After skin contact:**

Wash carefully off with soap and copious quantities of cold water. If symptoms develop consult a specialist physician.

**4.4 After swallowing:**

Flush mouth out with water. Give water to drink. In case of indisposition consult a doctor. Never infuse anything into the mouth of an unconscious person.

**4.5 Instructions for the doctor:**

Treat according to symptoms and supportively. Treat any remaining particles in the eye as foreign bodies.

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**5. FIRE-FIGHTING MEASURES**

**5.1 Suitable extinguishing agents:**

Water, spray water mist, CO<sub>2</sub>, foam, solid extinguishing agent

**5.2 Extinguishing agents unsuitable on account of safety reasons:**

None – select extinguishing agent according to the fire in the vicinity.



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### 5.3 Particular hazards from the material or the product itself, its combustion products or the generated gases:

The product contains a small amount of volatile organic materials, which can be emitted at elevated temperatures.

At elevated temperatures smouldering gases can be emitted (see Section 10.3). In case of fire toxic combustion products can be released (organic compounds, NO<sub>x</sub>, CO).

### 5.4 Particular protective equipment during fire-fighting:

Wear respiratory protection which is independent of the surrounding air.

### 5.5 Additional indications:

none

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## 6. MEASURES IN CASE OF ACCIDENTAL RELEASE

### 6.1 Personal precautionary measures:

When handling products which can release fibre dust, the contamination at the work places should be kept as low as possible.

### 6.2 Environment protection measures:

Avoid the formation of dust in the air.

### 6.3 Cleaning process:

If possible gather up the dust moist. Avoid dust formation. Clean by vacuum instead of sweeping. Carry out thorough cleaning only at the end of the working day.

### 6.4 Additional indications:

None

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## 7. HANDLING AND STORAGE

### 7.1 Handling

#### 7.1.1 Information for safe handling:

Dust is a typical by-product when assembling and disposal of building materials. Dust formation is to be reduced to a minimum (for example by good aeration and ventilation). Wear impermeable protective gloves and avoid contact with the eyes (see Section 8).

#### 7.1.2 Information about fire and explosion protection:

Not necessary



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**7.1.3 Further details:**  
none

## **7.2 Warehousing**

### **7.2.1 Requirements for storage rooms and containers:**

The product should be stored and transported protected from moisture. The product is to be protected against rain (see Section 10.2).

### **7.2.2 Information concerning storing together:**

No measures are necessary.

### **7.2.3 Further details about storage conditions:**

There is no limitation on the quantity in storage.

### **7.2.4 Storage class:**

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### **7.2.5 Particular application:**

The product is only intended for acoustic applications. It is not intended for thermal insulation applications.

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## **8. LIMITATION AND MONITORING OF EXPOSURE/PERSONAL PROTECTIVE EQUIPMENT**

### **8.1 Components with work-place related thresholds which are to be monitored:**

4 mg/m<sup>3</sup> is held as a general threshold limit for dust.

The threshold limits for fibre dust usually lie below this value.

0.25 mg/m<sup>3</sup> apply for Swiss mineral fibres (synthetic), according to SUVA (2003; MWC lists, valid for fibres with an average diameter of less than 3 µm and an average length of greater than 5 µm. Ratio length / diameter at least 3:1).

### **8.2 Limitation and monitoring of exposure at the place of work:**

Monitoring of the exposure by measurements at the work place or other equivalent procedures.

### **8.3 Personal protective equipment**

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**8.3.1 Respiratory protection:**

The use of half / quarter masks with a P2 filter or of particle-filtering half masks FFP2 is recommended.

**8.3.2 Hand protection:**

Wear protective gloves in compliance with EN 374.

**8.3.3 Eye protection:**

The wearing of protective glasses with side protection, which protect from dust and particles (EN 166), is an absolute prerequisite.

**8.3.4 Body protection:** The utilisation of disposable overalls or dust repellent clothing is recommended. Wash hands prior to breaks, after the end of work and prior to using sanitary installations.

Change all clothing at the end of the working day. Do not rub the skin prior to washing! First of all wash (take a cold shower!) in order to close the skin pores. Fatty skin ointment is recommended for care of the skin.

**8.3.5 Limitation and monitoring of exposure to the environment:**

Take care that the room is well ventilated.  
 Avoid dust formation (for example cut tiles with a knife instead of with a saw).

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Appearance**

Form: solid (in the form of a tile) – non-crystalline, homogeneous structure  
**Colour:** Fibreglass: yellow or brown / coating: cream/white  
**Odour:** odourless

**9.2 Safety-relevant Data**

Description	Value	Method	Comments
pH (20 °C)			not applicable



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Melting point / - range (+°C)	approx. 900 °C		Literature value
Boiling point (°C)			not determined
Ignition point (°C)	non inflammable	EN 13501	Building material class A2
Explosion hazard	non explosive		not applicable
Lower explosion limit	none		not applicable
Upper explosion limit	none		not applicable
Ignition temperature (°C)	non inflammable	EN 13501	Building material class A2
Fire-promoting properties	none	EN 13501	Building material class A2
Vapour pressure (°C)			not determined
Density (g/cm <sup>3</sup> )	65 to 75 kg/m <sup>3</sup>		
Bulk density (kg/m <sup>3</sup> )			not applicable
Solubility in water (g/l at 20°C)	insoluble		in water
Partition coefficient n-octanol / water (K <sub>ow</sub> )	insoluble		in fat
Dynamic viscosity (mPas/20 °C)			
Flow time			not determined
Vapour pressure			not determined
Evaporation speed			not determined
Solvent separation test			not applicable
Solvent content	solvent free		not determined
Conductivity			not determined
Corrosion			not determined
Miscibility	insoluble		not determined
Gas group			not applicable
Spontaneous ignition temperature			not applicable

**9.3 Other Details:**

The product has been classified as building material class A2 (non inflammable) according to EN 13501:

CSTB, Paris, licence number: RA07-0053  
 DIBt, Berlin, licence number: Z-56.421-947

The data given in Section 9 are typical values for the product and cannot be considered as product or supply specifications.



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**10. STABILITY AND REACTIVITY**

**10.1 Conditions to be avoided:**

The product is stable under conditions of normal temperature and pressure. It contains binding agents which thermally decompose above temperatures of 200°C.

**10.2 Materials to be avoided:**

Hydrofluoric acid; this can dissolve fibreglass, as well as the glass component in the coating with the formation of  $H_2SiF_6$ . Acetone and similar organic solvents can dissolve the binding agent.

Tiles may not be allowed to absorb large quantities of water. This will lead to massive staining on the surface.

**10.3 Hazardous decomposition products:**

None

During the initial heating over 250°C smouldering g ases are formed with a pungent odour. These are to be considered harmless according to the test methods of DIN 53 496.

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**11. TOXICOLOGICAL DETAILS**

**11.1 Toxicological Tests**

**11.1.1 Acute toxicity      Species      Value      Method      Comments**

There is no quantitative data available about the toxicity of this product.

**11.1.2 Specific symptoms in animal experiments**

After swallowing: not tested

After skin contact: not tested

Following inhalation: see Section 11.1.6

**11.1.3 Irritation - /etching effect:**

On the eye: Fine-grained particles and coarser fibres can scratch the surface of the eyes and cause a mechanical irritation.

On the skin: Repeated and longer contact with the skin can cause a slight temporary skin irritation, which makes itself evident as an itching and usually wears off on its own.

On the respiratory system: Dust irritates the respiratory system and the mucous membranes.

**11.1.4 Sensitisation**





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It is not probable that a harmful effect occurs with this product if handled and used in the recommended manner.

### 11.1.5 Subacute to chronic toxicity

**Subacute chronic toxicity:** not tested  
**Subacute oral toxicity:** not tested  
**Subacute inhalational toxicity:** not tested

#### **Assessment:**

No subacute to chronic toxicity is expected.

#### **Note:**

The irritations mentioned in Section 11.1.3 are of a mechanical and not of a chemical nature. They can be triggered off by coarse fibres and by non-fibrous particles.

### 11.1.6 Carcinogenicity, mutagenicity and reproductive toxicity

#### **Carcinogenicity:**

Product contains no crystalline quartz or other siliceous materials. Fibreglass is not classified in **any** carcinogenic category (see Section 15). Protective measures are thus not absolutely necessary during production and processing.

#### **Mutagenicity:**

not available

#### **Reproductive toxicity:**

not available

### 11.2 Practical experience

**11.2.1 Observation relevant for classification:** none

**11.2.2 Other observations:** none

### 11.3 General remarks:

The eye, skin and mucous membrane irritations are not only caused by fibrous dust. They can also appear as a reversible symptom with non-fibrous dusts.

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## 12. ENVIRONMENTALLY RELATED DETAILS

### 12.1 Ecological toxicity:

The product does not represent an environmental risk.

### 12.2 Mobility:



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Due to its insolubility in water (Section 9.2) the product has no mobility.

### 12.3 Persistence and degradability:

The proportion of silicate glass (>80 %) is not biologically decomposable.

### 12.4 Potential for bioaccumulation:

not applicable

### 12.5 Findings of the determination of the PBT characteristics: not applicable, see Section 3.2

### 12.6 Further information:

The product consists to a large extent of recycled material (special recovered glass):

Fibreglass: > 80 %

Coating: > 70 %

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## 13. PARTICULARS FOR DISPOSAL

### 13.1 Disposal / Waste (Product):

The disposal must be carried out in compliance with federal, Länder and local regulations.

**Recommendation:** Disposal on building rubble and household refuse landfills. Small quantities can be disposed of in refuse incineration. Fibreglass can be recycled again by the fibre glass manufacturers.

#### **EAK/AVV-waste key:**

10 11 03 (material new, also from renaturisation)

15 01 02 (PE-foil as packaging material)

### 13.2 Packaging:

Deliver PE-foil to plastics recycling.

### 13.3 Additional indications:

The product also does not constitute any hazard as scrap (see Section 12.1).

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## 14. TRANSPORT DETAILS

14.1 Land transport (ADR/RID/GGVSE): non hazardous goods

14.2 Inland water transport (ADNR): non hazardous goods



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<b>14.3 Marine transport (IMDG-Code/GGVSee):</b>	non hazardous goods
<b>14.4 Air transport (ICAO-IATA/DGR):</b>	non hazardous goods
<b>14.5 general information:</b>	protect from moisture when transporting.

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**15. STATUTORY PROVISIONS**

**15.1 Safety Assessment:**

Regarding fibreglass it has been verified that according to EC Guideline 97/69/EC, two points from Appendix Q apply to the product:

1. It has been proven in a short-term intratracheal bio-persistence test on the fibres contained in the product that the weighted half-life of fibres longer than 20 mm was less than 40 days.
2. It has been proven in a short-term inhalation bio-persistence test on the fibres contained in the product that the weighted half-life of fibres longer than 20 mm was less than 10 days.

Thus it is scientifically substantiated that fibreglass can be classified as free from the suspicion of cancer according to the guideline mentioned. The product is classified and designated according to EC guidelines and the Ordinance on Hazardous Substances.

**15.2 Labelling**

**Hazard symbol and hazard designation:**

The product is classified as a skin irritant (R38).

**15.2.1 Special labelling regulations for particular preparations:**  
does not apply

**15.2.2 Information concerning labelling:**

R-Sets: R 38  
S-Sets: S24-25 (avoid contact with the eyes and skin)

**15.3 EC-Regulations**

**15.3.1 Special collective clauses:**  
none

**15.3.2 Detergents regulation:**  
does not apply



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### 15.3.3 VOC Guidelines 1999/13/EC:

does not apply

### 15.3.4 Solvent-containing Paint and Varnish Guidelines 2004/42/EC:

does not apply

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## 16. OTHER DETAILS

### Text of the R-Sets, which are referred to in Sections 2 and 3:

R38 – skin irritant

### Instruction information:

Further information concerning applications in accordance with the requirements can be found in the technical data sheet.

### Recommended restrictions in the application:

Processing the material is usually carried out by BASWA certified staff.

### Further Information:

Further information can be obtained under: [msds@baswa.com](mailto:msds@baswa.com), (Section: 1.3).

### Data Sources:

- Safety data sheets of materials utilised and preparation according to the current status.
- TRGS 200
- Guidelines 67/548/EEC; 91/155/EWG; 97/69/EC; 98/8/EC; 98/24/EC; 1999/45/EC; 2004/73/EC; 2006/8/EC; 1907/2006/EC

### Data changed from the previous version:

First version after the coming into force of Guidelines 1907/2006/EC (REACH-directive).

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