

**Material Safety Data Sheet**

91/155/EEC

Revised : 08 / 08 / 2007

Date of Printing : 12/10/2007

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**1. Identification of the Substance / Preparation and Company**

**Product Name & Use :** Pro-Basis, Pro-Model, Pro-Model Ortho, Pro-Model Super, Pro-Solid, Pro-Solid Super, Pro-Classic, Pro-Rock, Pro-Buccofix, Pro-Stone 21, Pro Stone 21 Ortho, Dental Hartgips, Heboroc, Diadur Orthostone, Ortho Plaster, Heliodur D, Supraduro D, Almod S, Dental Rapid, Pro Stabil

**Modelling material for dental applications**

**Manufacturer / Supplier :****BPB Formula GmbH**

Kutzhütte

37445 Walkenried

Germany

Telephone No. : (+49) 05525 / 203 – 0

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**2. Hazards Identification**

**Description of hazard :** This material will harden and become very hot, when mixed with water. Avoid skin contact and do not attempt to make a cast enclosing any part of the body. If these instructions are not followed, severe burns could result leading to surgical removal of the affected skin or even amputation of the limb.

**Additional guidelines concerning for humans and the environment :** NONE

**3. Composition / Information on Ingredients**

**Chemical Composition :** Mixtures of calcium sulphate with other additives

 $\text{CaSO}_4 \times n \text{ H}_2\text{O}$  ( n = 0 , ½ , 2 )

CAS-Nr.: 7778-18-9 Calcium sulphate

**Dangerous Substances :** NONE

**Additional Guidelines :** Calcium sulphate has not to be labelled according to EU-directives and the regulation on hazardous substances

CAS-No	Chemical Formula	Content	Limit Concentration in the Air
7778-18-9	$\text{CaSO}_4$	> %90	Max. Value (*) $6\text{mg/m}^3$

(\*) maximum admissible concentrations at the workplace ( TRGS 900 / Germany )

**4. First-Aid Measures**

No particular measures required.

**Ingestion :** Drink plenty of water and consult doctor.

**Inhalation :** Remove person to fresh air.

**Skin Contact :** Wash the skin with water and soap.

**Eye contact :** Wash out with plenty of water and consult doctor.

**Notice for the doctor :** None

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### 5. Fire Fighting Measures

**Suitable Quenching Agents :** All quenching agents are suitable, product itself is not combustible.

**Unsuitable Quenching Agents :** NONE

**Special exposure hazards arising from dust, combustion or gas development :** at temperatures >1200°C sulphur trioxide will be produced

**Special Protective Equipment :** NONE

**Additional notice :** In contact with water product will harden. Product does not burn itself

### 6. Accidental Release Measures

**Personal Precaution measures :** Avoid dust.

**Environmental protection measures :** None

**Procedure for cleaning / absorption :** Mechanical pick up, pick up dry

### 7. Handling & Storage

**Handling :** No particular measures required if used correctly. Avoid eye contact.

**Storage :** Store in a dry place. BREF : " Emission from storage or bulk or dangerous materials "

### 8. Exposure Controls / Personal Protection

**Components with work-place related limits to be monitored**

CAS-No	Chemical Formulation	Limits (TRGS 900, Germany)
7778-18-9	CaSO <sub>4</sub>	MAK Value 6mg/m <sup>3</sup>

**Personal Protective Equipment :** Protective glasses.

**Respiratory Protection :** Maintain the general maximum admissible concentration in the work place (6 mg/m<sup>3</sup>).  
In case of strong dust emission wear respiratory filters type FFP 1.

### 9. Physical and Chemical Properties

**Physical Properties :**

**Appearance :** white-grey powder

**Odour:** odourless

**pH :** approx. 7-8 ( 10g / 100ml distilled water )

**Thermal decomposition of gypsum** into CaSO<sub>4</sub> and H<sub>2</sub>O above ~140°C (413 K)

into CaO and SO<sub>3</sub> above ~1200°C (1473 K)

**Density** Approx. 2,5 – 3 g/cm<sup>3</sup>

**Solubility** Approx. 8 g/l (H<sub>2</sub>O)

**Non-combustible.**

**10. Stability & Reactivity**

Stable at ambient temperatures and under normal use conditions.  
When working at temperatures over 1200 degree Centigrade hazardous sulphuric trioxide can develop.

**11. Toxicological Information**

Non Toxic

**12. Ecological Information**

Negative ecological effects are unknown.

**13. Disposal Considerations**

**The Product :** Waste Disposal No.: 10 12 06 (European Waste Catalogue)

**Contaminated Packaging :** Dispose of empty bags according to the local regulations.

**14. Transportation Information**

Not regulated by national or international transportation regulations.

**15. Regulatory Information**

**Labelling According to EU – directives :** Calcium sulphate does not require labelling Directive 67/ 548  
Preparation does not require labelling Directive 1999 / 45 / EC

**Occupational Exposure Standards:** Calcium sulphate does not have a specific OES. It is recommended that the OES for calcium sulphate of 6 mg / m<sup>3</sup> respirable dust in an 8 hour reference period is used.

**16. Other Information**

All information provided based on our latest knowledge and described the product only with regard to safety requests.