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## 01. SUBSTANCE/PREPARATION AND COMPANY NAME

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<b>Trade name</b>	<b>KRONE Casting Plaster</b>
<b>Application of the substance</b>	Gypsum binder pursuant to EN 13279-1 Type A for direct application or further processing
<b>Manufacturer</b>	Hilliges Gipswerk GmbH & Co. KG Hüttenweg 1 D - 37520 Osterode Tel. + 49 (0) 5522 / 9909-0 Fax: + 49 (0) 5522 / 9909-0 E-Mail: info@krone-gips.de
<b>Contact point for technical information</b>	Tel. + 49 (0) 5522 / 9909-0
<b>Information in case of emergency</b>	Tel. + 49 (0) 5522 / 9909-0

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## 02. POSSIBLE HAZARDS

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<b>Designation of hazard</b>	non applicable
<b>Additional hazard indications for man and environment</b>	none

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## 03. COMPOSITION/INDICATION OF THE INGREDIENTS

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<b>Chemical characterisation</b>	Calcium sulphate hemihydrate $\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$ CAS-No. 7778-18-9
<b>Dangerous ingredients</b>	none
<b>Additional information</b>	Calcium sulphate is not subject to compulsory labelling pursuant to EU-guidelines and Ordinance of Hazardous Substances
CaSO <sub>4</sub> - content MAK TRGS 900	> 85% 6mg/m <sup>3</sup> (respirable fraction)

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## 04. FIRST AID MEASURES

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<b>General indications</b>	no special measures required
<b>After swallowing</b>	drink lots of water and consult physician
<b>After eye contact</b>	on eye contact thoroughly rinse with lots of water

## Safety Data Sheet pursuant to ordinance (EU) Nr. 1907/2006

Trade name: KRONE Casting Plaster

Updated: 01 Jun 2007

Print date: 26 Nov 2007



**KRONE-GIPS**

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### 05. MEASURES OF FIRE FIGHTING

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<b>Appropriate extinguishing agents</b>	Any extinguishing agent appropriate, product itself does not burn. (adapt extinguishing agent to surrounding fire)
<b>In appropriate extinguishing</b>	none
<b>Particular hazards through the substance, its combustion products or generated gases</b>	none
<b>Particular protection equipment for fire fighting</b>	none
<b>Additional indications</b>	product hardens in contact with water.

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### 06. MEASURES ON UNINTENTIONAL RELEASE

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<b>Person-related precaution measures</b>	no special requirements, remove bulk material fast in order to avoid excessive dust development.
<b>Environmental measures</b>	no special requirements, remove up bulk material fast in order to avoid excessive dust development
<b>Cleaning procedure/ taking up</b>	remove mechanically, remove dry, avoid excessive dust development

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### 07. HANDLING AND STORAGE

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<b>Indications for safe handling</b>	no special measures required for appropriate handling.
<b>Indications for fire and explosion protection</b>	material is non-incombustible, no formation of explosive vapours, no hazard of dust explosion, material has the effect of extinguishing fires
<b>Indications to storage conditions</b>	storage pursuant to VawS, gypsum depot pursuant LAI-SampleVwV §5 Abs. 1 Nr.3 BimSchG. VCI-Storage class 13 / non-combustible solid material dry in closed containers or original packing



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## 08. LIMITATION OF EXPLOSIONS AND PERSONAL PROTECTIVE EQUIPMENT

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### Limits for working places (AGW) Germany

CAS-Number 7778-18-9

Designation CaSO<sub>4</sub>

Limit value (TRGS 900)                      MAK 6 mg/m<sup>3</sup> (respirable fraction)

**Personal protective equipment** Respect general safety and hygiene measures.

**Respiratory equipment**                      Respiratory equipment P1 or FFP1 (TRGS 521) is recommended for elevated dust development

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## 09. PHYSICAL AND CHEMICAL PROPERTIES

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Form	powder
Colour	white, beige, yellow, grey
Odour	without odour
Change of state	non applicable
Thermal decomposition of gypsum	in CaSO <sub>4</sub> and H <sub>2</sub> O ca. 140°C (ca. 413 K) in CaO and SO <sub>3</sub> ca. 1000°C (ca. 1273 K)
Density	CaSO <sub>4</sub> · x H <sub>2</sub> O (x = 0, ½, 2) : 2.31 – 2.97 g/cm <sup>3</sup>
Apparent density	ca. 0,9 kg/l
Solubility	ca. 2 g/l
pH-value	non applicable in state of delivery neutral in aqueous suspension (pH 7)

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## 10. STABILITY AND REACTIVITY

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**Conditions to be avoided**                      no hazardous reactions known

**Substances to be avoided**                      none known

**Hazardous decomposition products**                      none

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## 11. INDICATIONS ON TOXICOLOGY

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**Acute toxicity**    non toxic



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## 12. ENVIRONMENT-RELATED INDICATIONS

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Product behaves ecologically neutral.

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## 13 INDICATIONS ON DISPOSAL

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<b>Substance</b>	waste no subject to monitoring regulations for processing
<b>Waste key pursuant to waste register- Ordinance (AVV)</b>	17 01 04 / 17 07 01 building and demolition rubble Processing on rubble processing plants Subject to monitoring regulations for processing / Disposal by simplified certificate procedure (Evidence of disposal, reception certificate procedure) Disposal on waste dumps pursuant to TA Urban waste
<b>Uncleaned packing</b>	Goods in bags or other packing have to be emptied optimally and can be passed to recycling via DSD (green point), or Interseroh.

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## 14. INDICATIONS ON TRANSPORT

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No hazardous goods in the scope of national and international transport regulations.

**Transport on roads ADR/RID** not classified as hazardous goods

**Transport on sea IMDG/GgvSea** not classified as hazardous goods

**Transport on planes ICAO-TI and IATA-DGR** not classified as hazardous goods

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## 15. REGULATIONS

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<b>Labelling pursuant to EU-Guidelines</b>	no subject to labelling pursuant to EU-Guideline 67/548 or 1999/45/EG (Abl. EG Nr. L200 dated 30 Jul 1999) for the classification, packing and labelling of hazardous goods/preparations.
<b>National regulations</b>	calcium sulphate is a substance subject to labelling pursuant to Ordinance on Hazardous Substances (GefStoffV). TRGS 900 : CaSO <sub>4</sub> MAK = 6 mg/m <sup>3</sup> (respirable fraction)
<b>Water hazard class</b>	Water hazard class WGK 1 (Listed substance, Ident.-No. 325) VwVwS dated 17 May 1999 (BAnz. 98a dated 29 May 1999)

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### 16. FURTHER INDICATIONS

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**Also prevailing EU-Guidelines** Preparation guideline (1999/45/EU), last updating by the guideline 2006/8/EU  
Substance guideline (67/548/EEC), last updating by guideline 2006/121/EC  
REACH-Ordinance (EU) No.1907/2006

**Limitation of application recommended by the manufacturer** Only for inside application

**R-phrases which are referred to in section 02/03** none

**Changes compared to the last version** Adaptation pursuant to REACH-Ordinance (EU) No.1907/2006

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The indications are based on the today's state of knowledge. They describe the product exclusively in view to safety requirements und do not represent an assurance of characteristics of the described product.

They may not be changed or transferred to other products.

The indicated limit values are taken from the lists (e.g. TRGS 900) in force during establishment.

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