



gemäß 1907/2006/EG, Anhang II, Nr. 2015/830

Ausgabedatum: 28.07.2015

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Druckdatum: 17.11.2015

## Dentalgypsum, Typ 1-5

### 1. Identification of the Substance / Preparation and Company:

Identification of the substance or preparation:

Commercial product name:

Dr. Kühns, Articulation plaster, Mounting Stone, Non Plus Ultra, Velox, Alamo, Alamo S, Ehodit, Hinrizit, Hinrizit Speed, Laborit, Hinridur, Hinridur S, Ortho Plaster, Hinrizit E, Hinriplast N, Hinristone 20/22/24, Hinristone Speed, Japan-Stone, SH 074, Die Stone, Tru Stone, Base Stone, Base Stone FL, CAM-Stone N, Die Keen, HinriDie, Hinristone E, Hinrizit Super

Company / Manufacturer:

ERNST HINRICHS Dental GmbH

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### 2. Hazards identification

- 2.1 Classification of the substance or mixture  
In compliance with EC regulation No.  
1272/2008 and its amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC,  
1999/45/EC and their amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

- 2.2 Label elements  
In compliance with EC regulation No.  
1272/2008 and its amendments.

No labelling requirements for this mixture.

- 2.3 Other hazards

The mixture does not contain substances:  
The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

### 3. Composition/ Information on ingredients

- 3.1 Mixtures

Composition:

Identification	(EC) 1272/2008	67/548/EEC	Note	%
INDEX: PLATRE 1 CAS: 7778-18-9 EC: 231-900-3 REACH: 1-211944918-26 SULFATE DE CALCIUM CAS04 + 0,5H2O			[1]	50 ≤ x % < 100

Information on ingredients:

[1] Substance for which maximum workplace exposure limits are available



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### 4. First aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

Never induce swallowing by an unconscious person.

#### 4.1 Description of first aid measures

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

Watch out of any remaining product between skin and clothing, watches, shoes, etc.

In the event of swallowing.

Seek medical attention, showing the label.

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

No data available.

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

No data available.

### 5. Firefighting measures

Non-flammable.

#### 5.1 Extinguishing media

Suitable methods of extinction

Any means suitable for extinguishing surrounding fire.

N/A

Unsuitable methods of extinction

None.

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

None.

#### 5.3 Advice for firefighters

Special protective equipment for fire-fighters: None.

### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures For first aid worker

Consult the safety measures listed under heading 7 and 8.

#### 6.2 Environmental precautions

First aid workers will be equipped with suitable personal protective equipment (See section 8).

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

Prevent any material from entering drains or waterways. Retrieve the product by mechanical means (sweeping/vacuuming): do not generate dust.

#### 6.4 Reference to other sections

No data available.

### 7. Handling and Storage

Requirements relating to storage premises apply to all facilities where the mixture is handled.

#### 7.1 Precautions for safe handling

Always wash hands after handling.

Fire prevention:

Prevent access by unauthorized personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixtures is used.

#### 7.2 Conditions for safe storage, including any incompatibilities:

No data available.

Packaging

Always keep in packaging made of an identical material to the original.

#### 7.3 Specific end use(s)

No data available.

### 8. Exposure controls/ personal protection

#### 8.1 Control parameters

Occupational exposure limits:

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ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):					
CAS TWA:	STEL:	Ceiling:	Definition:	Criteria:	
7778-18-9	10mg/m <sup>3</sup>	-	-	-	I
Belgium (order of 19/05/2009, 2010):					
CAS TWA:	STEL:	Ceiling:	Definition:	Criteria:	
7778-18-9	10 mg/m <sup>3</sup>	-	-	-	-
France (INRS – ED984 :2008):					
CAS VMW-ppm:	VME-mg/m <sup>3</sup> :	VLE-ppm:	VLE-mg/m <sup>3</sup>	Notes:	TMP No:
7778-18-9	-	10	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

Sulfate de calcium CAS04 + 0,5H<sub>2</sub>O (CAS: 7778-18-9)

Final use: Workers.

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL: 5082 mg of substance/m<sup>3</sup>

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 21.17 mg of substance/m<sup>3</sup>

Final use: Man exposed via the environment.

Exposure method: Ingestion.

Potential health effects: Short term systemic effects.

DNEL: 11.4 mg/kg body weight/ day

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 1.52 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Short term systemic effects.

DNEL: 3811 mg of substance/m<sup>3</sup>

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 5.29 mg of substance /m<sup>3</sup>

Predicted no effect concentration (PNEC):

SULFATE DE CALCIUM CASO4 + 0,5H<sub>2</sub>O (CAS: 7778-18-9)

Environmental compartment: Waste water treatment plant.

PNEC: 100 mg/l

### 8.2 Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indication the obligation of wearing personal protective equipment (PPE):



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.



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Eye/ face protection:	Avoid contact with eyes. Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.
Hand protection:	Wear suitable protective gloves in the event of prolonged or repeated skin contact.
Body protection:	Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
Respiratory protection:	Avoid breathing dust. Type of FFP mask: Wear a disposable half-mask dust filter in accordance with standard EN149.

### 9. Physical and chemical properties

Information on basic physical and chemical properties

9.1	General information:	
	Physical state:	Powder or dust.
	Important health, safety and environmental information	
	pH:	Not stated.
		Neutral.
	Boiling point/ boiling range:	Not relevant.
	Flash point interval:	Not relevant.
	Vapour pressure (50°C):	Not relevant.
	Density:	Not stated.
	Water solubility:	Soluble.
	Melting point/ ,melting range:	Not relevant.
	Self-ignition temperature;	Not relevant.
	Decomposition point/ decomposition range:	Not relevant.
9.2	Other information:	No data available.

### 10. Stability and reactivity

10.1	Reactivity:	No data available.
10.2	Chemical stability:	This mixture is stable under the recommended handling and storage conditions in section 7.
10.3	Possibility of hazardous reactions	Mixing with an aqueous solution of sodium carbonate will result in the formation of carbon dioxide.
10.4	Conditions to avoid:	Avoid: -formation of dusts
10.5	Incompatible materials:	None.
10.6	Hazardous decomposition products	No data available.

### 11. Toxicological Information

11.1	Information on toxicological effects	No data available.
11.2	Substances	
	Acute toxicity:	
	SULFATE DE CALCIUM CASO <sub>4</sub> + 0,5H <sub>2</sub> O (CAS: 7778-18-19)	
	Oral route:	LD <sub>50</sub> > 1581 mg/kg Species: Rat OECD Guideline 420 (Acute Oral Toxicity Fixed Dose Method)
	Inhalation route:	LC <sub>50</sub> > 2.61 mg/l Species: Rat OECD Guideline 403 (Acute Inhalation Toxicity)



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Skin corrosion/ skin irritation:

SULFATE DE CALCIUM CASO4 + 0,5H2O (CAS: 7778-18-9)

Corrosivity:

No observed effect.

Species: Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Species: Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious damage to eyes/ eye irritation:

SULFATE DE CALCIUM CASO4 + 0,5H2O (CAS: 7778-18-9)

Species: Rabbit

OECD Guideline 405 (Acute Dermal Irritation / Corrosion)

Respiratory or skin sensitisation:

SULFATE DE CALCIUM CASO4 + 0,5H2O (CAS: 7778-18-9)

Local lymph node stimulation test:

Non-Sensitiser.

Species: Guinea pig

OECD Guideline 406 (Skin Sensitisation)

Guinea Pig Maximisation Test (GMPT):

Non-Sensitiser.

Species: Guinea pig

OECD Guideline 406 (Skin Sensitisation)

Buehler Test:

Non-Sensitiser.

Species: Guinea pig

OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

SULFATE DE CALCIUM CASO4 + 0,5H2O No mutagenic effect.

(CAS: 7778-18-9)

Mutagenesis (in vivo):

Negative.

Species: Mouse

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro):

Negative.

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Carcinogenicity:

SULFATE DE CALCIUM CASO4 + 0,5H2O

(CAS: 7778-18-9)

Carcinogenicity Test:

Negative

No carcinogenic effect.

Reproductive toxicant:

SULFATE DE CALCIUM CASO4 + 0,5H2O (CAS: 7778-18-9)

No toxic effect for reproduction

Study on development:

Specied: Rat

OECD Guideline 422 (Combined Repeated Dose Toxicity

Study with the Reproduction / Developmental Toxicity

Screening Test)

11.3 Mixture

No toxicological data available for the mixture.

## 12 Ecological Information

12.1 Toxicity

Substances

SULFATE DE CALCIUM CASO4 + 0,5H2O (CAS: 7778-18-9)

Fish toxicity:

LC50 > 79 mg/l

Species: Others

Duration of exposure: 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity:

EC50 > 79 mg/l

Species: Daphnia p.

Duration of exposure: 48 h



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	Algae toxicity:	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) EC <sub>50</sub> > 79 mg/l Species: Selenastrum capricornutum Duration of exposure: 72 h OECD guideline 201 (Alga, Growth Inhibition Test) No aquatic toxicity data available for the mixture.
	Mixtures	
12.2	Persistence and degradability	
	Substances	
	SULFATE DE CALCIUM CAS04 + 0,5H <sub>2</sub> O (CAS: 7778-18-9)	
12.3	Biodegradability:	No degradability data is available, the substance is considered as not degrading quickly.
12.4	Mobility in soil:	No data available.
12.5	Results of PBT an vPvB assessment:	No data available.
12.6	Other adverse effects :	No data available.

### 13. Disposal Considerations

	Proper waste management of the mixture and/ or its container must be determined in accordance with Directive 2008/98/EC.	
13.1	Waste treatment methods	Do not pour into drains or waterways
	Waste:	Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.
	Soiled packaging:	Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

### 14. Transport Information

	Exempt from transport classification and labelling.	
	Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea an ICAO/ IATA for air transport (ADR 2013 – IMDG 2012 – ICAO/IATA 2014)	

### 15. Regulatory Information

15.1	Safety, health and environmental regulations/ legislation specific for the substance or mixture	
	Classification and labelling information included in section 2:	
	The following regulations have been used:	Directive 67/548/EEC and its adaptations Directive 1999/45/C and its adaptations EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013. EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013. EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013 EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014
	Container information:	No data available.
	Particular provisions:	No data available.
15.2	Chemical safety assessment	No data available.



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### 16. Other Information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments. No labelling requirements for this mixture.

Abbreviations:

DNEL:	Derived No-Effect Level
PNEC:	Predicted No-Effect Concentration
ADR:	European agreement concerning the international carriage of dangerous goods by Road.
IMDG:	International Maritime Dangerous Goods.
IATA:	International Air Transport Association.
ICAO:	International Civil Aviation Organisation.
RID:	Regulations concerning the International carriage of Dangerous goods by rail.