



according 1907/2006/EG, Article 31  
 Date of issue: 03.05.2016  
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**Dental gypsum, Type 1-5**

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

- 1.1 Product identifier  
 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, Hinristone Saphir
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
 Relevant identified uses: Auxiliary for manufacture of dental prosthesis
- 1.3 Details of the supplier of the safety data sheet  
 Manufacturer/Supplier: ERNST HINRICHS Dental GmbH  
 Street / mailbox: Borsigstr. 1  
 Country code. / postal code / city: D - 38644 Goslar  
 Phone: 0 53 21 / 5 06 24  
 Fax: 0 53 21 / 5 08 81  
 E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de  
 Further information obtainable from: ERNST HINRICHS Dental GmbH
- 1.4 Emergency telephone number  
 ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

**SECTION 2: Hazards identification:**

- 2.1 Classification of the substance or mixture  
 Classification according to Regulation (EC) No. 1272/2008 [CLP]  
 Not classified
- 2.2 Label elements:  
 Labelling according to Regulation (EC) No. 1272/2008 [CLP]:  
 EUH210 Safety data sheet available on request
- 2.3 Other hazards  
 Results of PBT and vPvB assessment  
 PBT: Not applicable.  
 vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients:**

- 3.1 Substance Not applicable
- 3.2 Mixture  
 Dangerous components:
- |                    |   |          |
|--------------------|---|----------|
| (CAS No) 7778-18-9 | Calcium sulphate                                    | 70 - 99% |
| (EC no) 231-900-3  | Substance with a Community workplace exposure limit |          |

Full text of H-statements: see section 16

**SECTION 4: First aid measures:**

- 4.1 Description of first aid measures:  
 First-aid measures general: Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and seek medical advice.
- First-aid measures after inhalation: Allow breathing of fresh air. If breathing stops, give artificial respiration. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact: Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.



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First-aid measures after eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion:	Rinse mouth. Get medical advice/attention if you feel unwell.
4.2 Most important symptoms and effects, both acute and delayed:	Not expected to present a significant hazard under anticipated conditions of normal use.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

**SECTION 5: Firefighting measures:**

5.1 Extinguishing media:	Making extinguishing agents environment-friendly. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Suitable extinguishing media:	
Unsuitable extinguishing media:	Do not use a heavy water stream.
5.2 Special hazards arising from the substance or mixture:	The product itself does not burn.
5.3 Advice for firefighters:	
Firefighting instructions	Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
Protection during firefighting:	Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures:**

6.1 Personal precautions, protective equipment and emergency procedures:	Provide adequate ventilation. Evacuate unnecessary personnel. Use personal protective equipment as required. Avoid dust formation.
6.2 Environmental precautions:	Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
6.3 Methods and material for containment and cleaning up:	On land, sweep or shovel into suitable containers. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
6.4 Reference to other sections:	Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

**SECTION 7: Handling and storage:**

7.1 Precautions for safe handling:	
Additional hazards when processed:	Ensure good ventilation of the work station. Avoid dust formation.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace.
7.2 Conditions for safe storage, including any incompatibilities:	
Storage conditions:	Store in original container. Store tightly closed in a dry and cool place.
Storage class:	13 - Non-flammable solids
7.3 Specific end use(s):	No additional information available.

**SECTION 8: Exposure controls/personal protection**

8.1 Control parameters	No additional information available
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DNEL:

No further relevant information available

PNEC:

sewage treatment plant : 100 mg/l

**8.2 Exposure controls**

Appropriate engineering controls:

Use adequate ventilation to keep vapour concentrations below applicable standard.

Personal protective equipment:

Hand protection:

Wear suitable gloves. Nitrile rubber. 0.4 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Chemical goggles or safety glasses.

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of dust formation use respirator with filter: FFP1

Skin and body protection:

Wear suitable protective clothing.

**SECTION 9: Physical and chemical properties:**

**9.1 Information on basic physical and chemical properties:**

Appearance:	Crystalline Powder / Granulate
Physical state:	Solid
Colour:	Various.
Odour:	characteristic.
Odour threshold:	No data available.
pH:	In aqueous solution: pH 7
Melting point/Freezing point:	1450 °C
Boiling point:	No data available.
Flash point:	No data available.
Flammability (solid, gas):	Non flammable
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Oxidising properties:	No.
Explosive properties:	Product is not explosive.
Explosive limits:	No data available.
Vapour pressure:	No data available.
Density:	2,24 - 2,96 g/cm <sup>3</sup>
Relative density:	No data available.
Relative vapour density at 20 °C:	No data available.
Relative evaporation rate (butylacetate=1):	No data available.
Solubility:	Water: 2 g/l
Log Pow:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.

**9.2 Other information:**

No additional information available.

**SECTION 10: Stability and reactivity:**

**10.1 Reactivity:**

No dangerous reactions known under normal conditions of use.

**10.2 Chemical stability:**

Stable under use and storage conditions as recommended in section 7. No decomposition if stored and applied as directed.



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10.3 Possibility of hazardous reactions:	Refer to section 10.1 on Reactivity.
10.4 Conditions to avoid:	No information available.
10.5 Incompatible materials:	None under normal use.
10.6 Hazardous decomposition products:	Decomposition when temperatures > 1450 °C. Release of calcium oxide and sulphur trioxide.

**SECTION 11: Toxicological information:**

11.1 Information on toxicological effects	
Acute toxicity:	Not classified
Skin corrosion/irritation:	Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation:	Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity:	Not classified Based on available data, the classification criteria are not met
Carcinogenicity:	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity:	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure):	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure):	Not classified Based on available data, the classification criteria are not met
Aspiration hazard:	Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms:	Based on available data, the classification criteria are not met

**SECTION 12: Ecological information:**

12.1 Toxicity:	
Aquatic toxicity:	No further relevant information available.
12.2 Persistence and degradability:	The methods for determining the biological degradability are not applicable to inorganic substances.
12.3 Bioaccumulative potential:	Bioaccumulation unlikely.
12.4 Mobility in soil:	Water-soluble solid. The product is mobile in soil.
12.5 Results of PBT and vPvB assessment:	
PBT:	Not applicable.
vPvB:	Not applicable.
12.6 Other adverse effects:	No other effects known.

**SECTION 13: Disposal considerations:**

13.1 Waste treatment methods	
Regional legislation (waste):	Dispose in a safe manner in accordance with local/national



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regulations.  
 Waste disposal recommendations: When totally empty, containers are recyclable like any other packing.

European List of Waste (LoW) code	
10 12 00	wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 06	discarded molds
10 13 00	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 01	waste preparation mixture before thermal processing
10 13 06	particulates and dust (except 10 13 12 and 10 13 13)
17 08 00	gypsum-based construction material
17 08 02	gypsum-based construction materials other than those mentioned in 17 08 01

**SECTION 14: Transport information:**

- 14.1 UN number:  
 ADR, IMDG, IATA: Not applicable
- 14.2 UN proper shipping name  
 ADR, IMDG, IATA: Not applicable
- 14.3 Transport hazard class(es)  
 ADR, IMDG, IATA: Not applicable
- 14.4 Packing group:  
 ADR, IMDG, IATA: Not applicable
- 14.5 Environmental hazards:  
 Marine pollutant: No  
 Other information: No supplementary information available
- 14.6 Special precautions for user: Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

**SECTION 15: Regulatory information:**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
 EU-Regulations  
 This mixture is classified as not hazardous according to regulation (EC) 1272/2008.  
 National regulations  
 No additional information available
- 15.2 Chemical safety assessment: A chemical safety assessment has been carried out.

**SECTION 16: Other information:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.  
 The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent