



1. Identification of the preparation and of the company

1.1 Identification of the preparation

Extra hard plaster.

1.2 Use of the preparation

Plaster for orthodontic casts.

1.3 Company identification

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1.4 Emergency telephone

++39 (0)55.30.44.1. An answering machine is on during closing time.

2. Hazards identification

The product is not hazardous to humans or environment.

3. Composition/information on ingredients

The product is not considered hazardous in accordance with directives on hazardous substances and preparations.

Information on ingredients:

Chemical name	%	CAS ¹ Number	Formula
Calcium sulphate hemi-hydrate	> 98	10034-76-1	CaSO ₄ ½ H ₂ O
Sodium citrate	< 1	6132-04-03	C ₆ H ₆ Na ₂ O ₇

4. First aid measures

- Inhalation: provide good local ventilation.
- Ingestion: rinse the mouth and drink a large quantity of water
- Skin contact: wash with plenty of hot water.
- Eye contact: rinse with plenty of water with open eyes. Only for people wearing contact lenses: seek medical advice, if necessary.

5. Fire-fighting measures

- Suitable fire extinguishing methods: material is not inflammable, in case of fire, the advisable means of extinction for other materials involved in the fire can be used.
- Unsuitable fire extinguishing methods: none.
- Exposure hazards: none.

6. Accidental release measures

- Personal precautions: avoid dust formation.
- Environmental precautions: keep wetted with nebulized water to avoid dust leakage.
- Cleaning methods: pick up by mechanical means. Eliminate residuals with throws of water.

7. Handling and storage

7.1 Handling

In case of dust formation, arrange local or general dust suction.

7.2 Storage

Store in a dry place.

8. Exposure controls/personal protection

8.1. Exposure limit values²

European Union. Calcium sulphate, professional exposure limits (TWA): 10 mg/m³.

8.2. Professional exposure control

8.2.1. Respiratory protection

Protective mask.

8.2.2 Hand protection

Use gloves.

¹ CAS Number (Chemical abstract service).

² The "occupational exposure limit", if not otherwise specified, is the average limit or serious concentration in the time of a chemical agent in the air inside the breathing area of a worker related to a specific period of time (Directive 98/24/EC on health and safety protection of the workers against the consequential risks from chemical agents during the job); the TWA (time weighted average) indicator is the serious average concentration in the time for a working day of 8 hours.



8.2.3. Eye protection

Safety goggles.

8.2.4. Skin protection

No special precaution required, eventually wear an apron.

8.3 Environmental exposure control

See section 6.

9. Physical and chemical properties

9.1. General information

Appearance: powder
Colour: white
Odour: odourless.

9.2. Health, safety and environmental information

Melting point: approx. 1700°C
Specific weight (H₂O=1): approx. 2.6
Solubility in water: insoluble
pH: (10g/l) at 20°C: 5-7 in suspension
Flammability point: not applicable
Viscosity: not applicable
Volatile substances or components: none
Explosive properties: not explosive
Comburent properties: not comburent.

10. Stability and reactivity

- Stability: the compound is stable and it will not decompose under normal conditions of use and storage.
- Conditions to avoid: none.
- Materials to avoid: none.
- Dangerous reactions: by heating at high temperatures, it frees vapours of sulphurous anhydride.

11. Toxicological information

Specific studies in the literature connected to calcium sulphate, the principal ingredient of this preparation are not known: hazards related to this substance seem therefore to be generally treated on the same base as those attributable to inorganic powders with fine granulometry, which can be easily inhaled and may interest the bronchial tube and the lungs.

Hazards related to product exposure can be summarized as follows:

- Inhalation: limit ACGIH³ for powders: TLV⁴=10 mg/m³.
- Ingestion: no relevant hazards arise.
- Skin contact: no irritating effects.
- Eye contact: slightly irritating.

12. Ecological information

Ecological problems are not expected from a correct use.

13. Disposal considerations

Dispose of in accordance with local and national regulations. In Italy dispose of according to Legislative Decree of April 3 2006 no. 152 "Regulations on environmental subject", application of European directives on environmental protection, and subsequent modifications and integrations.

14. Transport information

Not dangerous for transport.

15. Regulatory information

- Health, safety and environmental information shown on the label according to European Directives on hazardous materials and substances

None.

- Information related to further dispositions

None.

³ ACGIH: American Conference of Governmental Industrial Hygienists, USA.

⁴ TLV, Threshold Limit Value, represents the concentration below which the most part of workers can be exposed to, in relationship to a reference specific period, without negative effects for the health.



16. Other information

The safety data sheet has been written according to relevant European provisions, on the basis of information received by the supplier of preparation.

The product is intended for orthodontic and odontological use only. The use of the product has to be restricted to skilled and licensed professionals.

The information drawn herein is based on our knowledge at the date of the issue.

The information is exclusively provided related to the product herewith specified and is not intended as a warranty of quality.

Leone disclaims any responsibility arising out of the use of the information here furnished, or of the handling, the application or the manufacture of the product here described. The final user is called to verify the application and completeness of the information herein in relationship to the specific use and reliability of the rules and local applicable dispositions.

The present information doesn't imply any liberty to break patent rights.

Previous safety data sheet no. R08/3E of 17/05/2001 has to be considered cancelled. In comparison to the preceding revision, meaningful changes have not been effected but only adjustments to the European provisions which regulate the compilation of safety data sheet.

This safety data sheet is subject to revision.

Visit our web site www.leone.it for an updated version of the present sheet.