

ZHERMACK S.P.A.

Safety Data Sheet according to the Dir. 2001/58/EEC

HYDROGUM L.L.

Revision date: 03/03/06

Print Date: 03/08/07

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

1.1 Identification of the preparation:

Trade name: HYDROGUM L.L.

Trade code: C302041/C302025/C302051/C302040

1.2 Utilization of the substance or of the preparation:

Alginate for dental impression material.

1.3 Identification of the company:

Supplier: ZHERMACK S.p.A. via Bovazecchino, 100 -45021- Badia Polesine (RO) ITALY

Emergency telephone number of the company: 0425/597611

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification: Potassium fluorotitanate.

Ingredient	Percentage %	CAS	Hazard phrases
Potassium fluotitanate	1 %- 3 %	16919-27-0	R20/21 R25

3. HAZARDS IDENTIFICATION

PREPARATION NOT CLASSIFIED DANGEROUS

No specific hazards are encountered under normal product use.

4. FIRST AID MEASURES

4.1 **Contact with skin:** The specific indications will not cause of irritation.

4.2 **Contact with eyes:** Wash immediately with water for at least 10 minutes.

4.3 **Swallowing:** If swallowed in a small quantity the product is harmless, otherwise consult a doctor.

4.4 **Inhalation:** Ventilate the premises.

5. FIRE-FIGHTING MEASURES

5.1 **Recommended extinguishers:** water, CO₂, foam, chemical powders, according to the materials involved in the fire.

5.2 **Extinguishers not to be used:** none in particular.

5.3 **Risks arising from combustion:** avoid inhaling the fumes.

5.4 **Protective equipment:** use protection for the respiratory tract.

6. ACCIDENTAL RELEASE MEASURES

6.1 **Measures for personal safety:** none in particular

6.2 **Environmental measures:** limit leakages with earth or sand.

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- 6.3 Cleaning methods:** recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material. After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

- 7.1 Handling precautions:** avoid contact and inhalation of the vapours. See, too, paragraph 8 below. Do not eat or drink while working.
- 7.2 Incompatible materials:** none in particular.
- 7.3 Storage conditions:** keep the closed container a temperature varying from 5°C to 27°C (41-80°F).
- 7.4 Technical measures:** satisfactory room ventilation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Precautionary measures:** give adequate ventilation to the premises where the product is stored and/or handled.
- 8.2 Respiratory protection:** not needed for normal use
- 8.3 Protection for hands:** not needed for normal use
- 8.4 Eye protection:** not needed for normal use
- 8.5 Protection for skin:** no special precaution must be adopted for normal use
- 8.6 Exposure limit(s) (ACGIH):** none

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance and colour:** green powder
- 9.2 Odour:** mint
- Water contact causes a elastic product.

10. STABILITY AND REACTIVITY

- 10.1 Conditions to avoid:** stable under normal conditions.
- 10.2 Substances to avoid:** none in particular.
- 10.3 Hazardous decomposition products:** none

11. TOXICOLOGICAL INFORMATION

The product tried in 1:2 ratio (as the normally use) doesn't have citotossic effects on the L929 cellular line. Set out below is the toxicological information relating to the main substances in the preparation.

Swallowing: Acute exposition at fluorine components may cause burning in the digestive .

Inhalation: may cause irritations in the respiratory tracts.

12. ECOLOGICAL INFORMATION

Use according to good working practice.

13. DISPOSAL CONSIDERATIONS

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Comply with the local and national regulations currently in force. Waste not dangerous.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

The preparation should not be considered as dangerous accordingly to the Directive 88/379/EEC.

Medical Device CE marked according to the Directive 93/42/EEC.

16. OTHER INFORMATION

For Potassium fluotitanate:

R20/21: Harmful by inhalation and in contact with skin

R25: Toxic if swallowed

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This MSDS cancels and replaces any preceding release.

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