

BENFERFLEX RAPIDO GRIGIO

SAFETY INFORMATION SHEET

1. Identification of the preparation and its producer

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| 1.1. Identification of the preparation | BENFERFLEX RAPIDO GRIGIO |
| 1.2. Use of the substance/preparation | Product for professional use.
Cement-based quick-setting adhesive for ceramic tiles. |
| 1.3. Identification of the company/enterprise | Benfer Chimica S.r.l.
Via Provinciale Est, 6
40053 Bazzano (BO) – Italy
phone +39-051-83.12.73
fax +39-051-83.15.84 |
| 1.4. Emergency phone number | Centro antiveleni (Antidote Centre) c/o Ospedale
Maggiore di Bologna (Bologna Hospital)
phone +39-051-647.89.55
+39-051-647.81.11 |

2. Composition/information on the ingredients

- 2.1 Hydraulic cement containing cement, sand, calcium carbonate, cellulose and aggregate.
- 2.2 Not pertinent
- 2.3~2.6

	<i>quantity</i>	<i>CAS number</i>	<i>EINECS number</i>	<i>classification</i>
Calcium hydroxide	1-10%	1305-65-0	215-137-3	C, R43-41

The preparation contains no other hazardous substances in accordance with Directive 67/548/EEC and foll. amdt. and suppl., but becomes irritant in the presence of water as this solution is highly alkaline (high pH due to the formation of hydroxides of calcium, potassium and sodium).

Furthermore, this solution may also contain modest quantities of hydrosoluble chromium (VI) salts which, following the addition of reducing agents, are maintained at concentrations of less than 0.0002% (2 ppm) of the total dry weight of the cement, providing this is correctly stored (see part 7.2) and used within the storage period specified on the packaging. Said expiry date relates to the preservation of the efficacy of the reducing agent.

3. Identification of hazards

- The dust of the preparation can have an irritating effect for the eyes, respiratory tract (with irritation of the upper tract) and mucous membranes. In addition it may be irritating for the skin in the event of prolonged contact.
- Mixes containing cement, because of its high pH, may cause irritation of the skin when the contact is repeated or extended and lesions to the eyes if splashed.
- If substantial amounts are swallowed, cement can cause ulceration of the digestive system.
- The preparation and its mixes present no particular risks for the environment, subject to compliance with the recommendations of the following points 6, 8, 12 and 13.

BENFERFLEX RAPIDO GRIGIO**4. First aid**

- 4.1. Inhalation Take outdoors and call a doctor if any trouble arises.
- 4.2. Contact with the skin If the skin reddens, carefully wash the affected area with soap and plenty of water; if the cutaneous reaction is extended, call a doctor.
- 4.3. Contact with the eyes Don't rub, rinse carefully with plenty of water with the eyelids open; call a specialist doctor.
- 4.4. Swallowing Rinse the mouth with plenty of water and call a doctor.

5. Fire-fighting

- 5.1. Extinguishers Any
- 5.2. Extinguishers NOT to use None
- 5.3. Safe extinguishers Any
- 5.4. Recommended equipment Any

6. Action in case of accidental spillage

- 6.1. Precautions for people Avoid contact with the eyes and skin, do not breathe in the dust. If handling with the spread of dust, prepare the necessary Individual Safety Devices against contact with the eyes (goggles), against contact with the skin (gloves, work clothes) and against inhalation and ingestion (filtering or dustproof face masks)
- 6.2. Precautions for the environment In case of accidental spillage, sweep up the preparation with a dry extractor before it gets into any drain water circuits or surface bodies.
- 6.3. Clearing methods Dry extractor.

7. Handling and storage

- 7.1. Handling Avoid action causing the spread of dust. Use suitable Individual Safety Devices (goggles, face masks, gloves).
- 7.2. Storage Keep in closed and identified containers out of the reach of children, in a dry place, away from acids, without spilling any powder.

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The integrity of the packaging and compliance with storage methods are indispensable conditions for maintaining the efficacy of the reducing agent throughout the storage period specified on the packaging.

8. Personal protection/exposure control

- 8.1. Threshold limit values of the single components
- Threshold limit value – weighted mean over time TLV-TWA American Conference of Governmental Industrial Hygienists (ACGIH 2003):
- Calcium hydroxide 5 mg/m³
 - Potassium hydroxide 2 mg/m³ (TLV-C)
 - Sodium hydroxide 2 mg/m³ (TLV-C)
 - Portland Cement 10 mg/m³ (inhalable fraction)
3 mg/m³ (breathable fraction)
 - chromium VI (insoluble compounds) as Cr 0.01 mg/m³
 - chromium VI (water soluble compounds) as Cr 0.05 mg/m³
- 8.2. Exposure control
- Use the preparation in open environments. If used in a closed room, ventilate the room or use extractor systems designed to reduce the exposure of the operator to the dust to a minimum.
- 8.2.1.1. Respiratory protection
- Filtering and/or dustproof face masks
- 8.2.1.2. Protection of the hands
- Use waterproof gloves suited to handling alkaline substances
- 8.2.1.3. Protection of the eyes
- Wear safety goggles
- 8.2.1.4. Protection of the skin
- Work clothes, preferably disposable ones.
- 8.2.2. Environmental exposure control
- Check for compliance with the limits of exposure stated in § 8.1.

9. Physical and chemical properties

- 9.1. General information
- dusty, grey solid
smell: none
- 9.2. Important information on human health, safety and the environment
- pH in aqueous solution 12,45
- Boiling point > 1000 °C
- Flash point non-flammable
- Flammability (solid, gas) /
- Explosive properties none

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Combustion properties	none
Vapour pressure	not applicable
Density	1.0 ~ 1.5 g/cc
Solubility in water	it forms saturated solutions of calcium hydroxide
Fat-solubility	insoluble
Coefficient of n-octanol/water division	not applicable
Viscosity	not applicable
Vapour density	not applicable
Speed of evaporation	not applicable

10. Stability and reactivity

10.1 Conditions to avoid	Avoid contact with acids.
10.2 Materials to avoid	Acids (pH < 7) since an exothermic reaction (with heat generation) is created.
10.3 Hazardous products of decomposition	None

11. Toxicological information

The components of the preparation may:

- by inhalation cause irritation to the respiratory tract and inflammation of the mucous membranes of the nose,
- by swallowing cause ulceration of the mouth, oesophagus and stomach,
- on damp skin cause irritation in case of prolonged contact
- in contact with the eyes cause irritation of the eyelids and cornea and injury to the eyeballs.

Live animal studies have shown that there is no acute toxicity on the derma.

12. Ecological information

12.1 Eco-toxicity	Effects of eco-toxicity are possible only in the case of spillage of large amounts in the presence of water. The preparation must be used according to good working practice, avoiding leakage into the environment.
12.2 Mobility	Not pertinent
12.3. Persistence and degradability	Not pertinent
12.4. Potential of bio-accumulation	Not pertinent

13. Remarks on disposal

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Comply with the current standards for the recovery/disposal of special waste – Italian legislative decree D.Lgs.22/97 and associated orders.

14. Information on transport

The preparation doesn't come under any class of hazard for the transport of hazardous goods. Use closed containers.

15. Information on regulations

The product has been classified as an **irritant** under D. Lgs. 65/2003 "Attuazione delle direttive 1999/45/CE e 2001/60/CE relative alla classificazione, all'imballaggio e all'etichettatura dei preparati pericolosi" ("Implementation of directives 1999/45/CE and 2001/60/CE relating to the classification, packaging and labelling of dangerous compounds").

Furthermore, this solution may also contain modest quantities of hydrosoluble chromium (VI) salts which, following the addition of reducing agents, are maintained at concentrations of less than 0.0002% (2 ppm) of the total dry weight of the cement, providing this is correctly stored (see part 7.2) and used within the storage period specified on the packaging.

Observance of said threshold limit for a predefined period of time and with guaranteed compliance with adequate storage methods (see part 7.2) ensures the preparation's conformity to the provisions of the Ministerial Decree of 10/05/2004 "Implementation of EU directive 2003/53/CE". Pursuant to the aforesaid decree, with the use of a reducing agent, the following information must be provided

- Packaging date: indicated on the packaging
- Storage conditions: in closed packets and in a cool, dry place
- Storage period: specified on the packaging

16. Other information

Revision 1 modifies standard references used in the preparation of this sheet (D.M.07.09.2002) and for the classification of the compound (D. Lgs. 65/2003).

This safety information sheet has been drawn up in conformity with Italian ministerial order D.M. 7th September 2002.

The user must make sure of the fitness and completeness of such information in relation to its specific use. This sheet annuls and replaces every preceding edition.

The listing of the legislative references must not be considered exhaustive; it is for the user of the product to refer to the provisions of existing laws for the relevant use, storage and handling, for which the user is to be considered the only person responsible.

Where applicable, reference is made to the following provisions of the law (and following amendments) on the subject of safety and environmental protection:

Italian presidential decree DPR 547/55 Standards for the prevention of accidents at work

Italian presidential decree DPR 303/56 General standards for hygiene at work

Italian legislative decree D.Lgs.152/99 Standards for the protection of water from pollution

Italian presidential decree DPR203/88 Atmospheric pollution generated by industrial plants

Italian legislative decree D.Lgs.22/97 Implementation of EEC directives on the subject of waste

Italian legislative decree D.Lgs.626/94 Implementation of EEC directives on the improvement of worker safety at the workplace

Italian legislative decree D.Lgs.25/02 Implementation of EEC directives concerning worker protection against the risks deriving from chemical agents during work

TLV (Threshold Limit Value) concentration of a substance (in the air) to which it is believed that nearly all the workers may be exposed, repeatedly day after day, without suffering any damage to their health. It is expressed in mg of substance in m³ of air as a daily average within the eight hours (TLV-TWA) or, where specified, as an average over 15 minutes (STEL) or as an instant value (CEILING).

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Hazard symbol: **Xi (irritant)**

Phrases of Risk: **R36/37/38 Irritating to eyes, respiratory system and skin**
R41 Risk of serious damage to eyes
R43 May cause sensitization by skin contact

Cautionary tips: **S2 Keep out of the reach of children**
S22 Do not breathe dust
S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).