

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 01.07.2008

Version: 1

Revision: 01.07.2008

1 Identification of substance:

- **Product details:**
- **Trade name:** ENA HRi
- **Article number:** EHR...
- **Application of the substance / the preparation** Dental filling material

Distributor:

Micerium spa., Via G. Marconi, 83 - 16030 Avegno (GE), Italy, Tel.: +39-0185-7887870,

Fax: +39-0185-7887970

- **Information in case of emergency:** Centro Antiveleeni Osp. S. Martino di Genova - Tel. 010 352808 (24h)

2 Hazards identification

- **Hazard description:** not applicable
- **Information concerning to particular hazards to man and environment**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:**
1,4-Butandioldimethacrylate
Urethandimethacrylate
Bis-GMA
- **Dangerous components:** Void
- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing** Do not induce vomiting; call for medical help immediately.

5 Fire fighting measures

- **Suitable extinguishing agents**
Foam
Fire-extinguishing powder

(Contd. on page 2)

GB

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(Contd. of page 1)

Water haze

Carbon dioxide

- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Keep away from ignition sources
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Keep receptacles tightly sealed.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Close container immediately after use and protect product from light incidence.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Protect from heat and direct sunlight.

8 Exposure controls and personal protection gear

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:** Protective gloves and protective skin cream.
- **Material of gloves:** Natural rubber, NR
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.

GB

(Contd. on page 3)

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(Contd. of page 2)

9 Physical and chemical properties:

· General Information

| | |
|----------------|----------------------------------|
| Form: | Pasty Highly viscous |
| Colour: | Different according to colouring |
| Odour: | Weak, characteristic |

· Change in condition

Melting point/Melting range: undetermined
Boiling point/Boiling range: undetermined

· **Flash point:** 101°C

· **Ignition temperature:** 370°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined

· Solubility in / Miscibility with

Water: Insoluble

· Solvent content:

Organic solvents: 0.0 %

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Materials to be avoided:

In presence of radical formers (e. g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.

· Dangerous reactions

Photoreactive

Danger of polymerization

· **Dangerous decomposition products:** No dangerous decomposition products known

11 Toxicological information

· Acute toxicity:

· Primary irritant effect:

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

GB

(Contd. on page 4)

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(Contd. of page 3)

12 Ecological information:

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
 Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

· **Product:**

· **Recommendation** Must be specially treated adhering to official regulations.

· **European waste catalogue**

| | |
|----------|---------------------------------------------------------------------|
| 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09 |
|----------|---------------------------------------------------------------------|

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.
 Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· **Recommended cleansing agents:** Alcohol

14 Transport information

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** -

15 Regulations

· **Labelling according to EU guidelines:**

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

Observe the general safety regulations when handling chemicals

· **National regulations**

· **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| III | 2,5-10 |

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

GB

(Contd. on page 5)

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(Contd. of page 4)

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Research & Development
- **Contact:** Eugenio Miceli

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