

MATERIAL SAFETY DATA SHEET (According to 91/155 EC)

Products: Hinrivest Liquid

data for printing: 14.08.03

reviewd on: 09.08.02

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1. Identification of the substance / preparation and company / undertaking

Product information:

Product name of expansions liquid for phosphate bound investments: **Hinrivest Liquid**

Manufacturer/supplier:

ERNST HINRICHS GMBH

Dental and gypsum products

Borsigstrasse 1

D-38644 Goslar

Tel. +49 (0) 53 21- 5 06 24, 5 06 25

Fax. +49 (0) 53 21 - 5 08 81

eMail: info@hinrichs-dental.de

2. Composition / information on ingredients

Chemical properties (component substances): water solution of colloidal silicic acid

3. Hazards identification

Hazard warning not required.

4. First-aid measures

Following skin contact: Wash skin immediately with plenty of water. If skin reactions occur, contact a physician.

Following eye contact: Open the eyelids and rinse for an adequate length of time water. If necessary consult an eye specialist.

Upon Inhalation: Supply fresh air. If there is difficulty in breathing, medical attention should be obtained.

Upon Swallowing: Rinse mouth out immediately. If the patient feels unwell, seek medical advice.

5. Fire-fighting measures

Suitable quenching agents: All suitable quenching agents, product itself is not combustible.

Unsuitable quenching agents: none

Particular danger caused by material, its combustion products or gases produced: none

Special protective equipment: none

6. Accidental release measures

Procedure for cleaning / absorption: Rinse off small quantities with plenty of water

7. Handling and storage

Handling: Keep containers tightly closed. Follow standard hygiene precautions.

Technical protection measures: ensure that working area is well ventilated; use suction.

Storage: Store in dry premises in closed, original containers. **Protect from frost!**

VCI storage class: 12

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8. Exposure controls / personal protection

Eye protection: goggles

When handling observe the usual precautionary measures for chemicals.

9. Physical and chemical properties

Form:	liquid
Colour:	white
Odour:	odourless
Change of state:	not applicable
Boiling point:	approx. 100 °C at 1013 mbar
Freezing point:	approx. 0°C
Density:	1,09 – 1,35 g/cm ³ at 20 °C
Vapour pressure:	approx. 20 mbar at 20 °C
Viscosity dynamic:	< 20 mPa · s at 20 °C
Solubility in water:	miscible
pH value:	9-10 at 20 °C (original solution)
Flash point:	not applicable
Ignition temperature:	not applicable
Explosive limits:	not applicable

10. Stability and reactivity

Thermal decoposition: not applicable

Hazardous decomposition products: No hazardous decomposition products observed.

Hazardous reactions: No hazardous reactions observed.

11. Toxicological information

Toxicological reports on Expansion Liquid Hinrivest Liquid to the following results:

Acute toxicity: LD50 oral, rat: > 15 000 mg/kg

Rabbit skin (24h): non irritant

Rabbit eyes: non-irritant

12. Ecological information

Ecotoxicological reports on Expansion Liquid Hinrivest Liquid show the following results:

Acuta bacterial toxicity: activated sludge micro-organism: EC50 = > 10 000 mg/l

Acuta fish toxicity: Zebra barbel (Brachydanio rerio) LC0: 5000 mg/l

Water pollution class (WGK): 0 – not generally hazardous to water (own classification)

WGK = Classification in accordance with the German Water Resources Act

13. Disposal considerations

Examine possibilities for re-utilization.

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14. Transport information

GGVSee/IMDG Code: -- UN No. -- MFAG: -- EmS: --

PG: -- **MPO:** --

GGVE/GGVS: Class -- No: -- RID/ADR: Class -- No.: --

ADNR: Class -- No. -- Cat -- ICAO/IATA-DGR: not restr.

Declaration for land shipment: --

Declaration for sea shipment: --

Declaration for shipment by air: --

Other information: Not dangerous cargo. Avoid temperatures below +5 °C.

15. Regulatory information

No labelling is required in accordance with the EEC directives.

16. Other information

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.