

Paste Opaquer Liquid

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|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.8 / GB |
| Specification | 130968 | Revision date | 16.09.2009 |
| VA-Nr | | Print Date | 16.09.2009 |
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product information

| | | |
|---------------------------------------|---|---|
| Trade name | : | Paste Opaquer Liquid |
| Company | : | DeguDent GmbH Postfach 1364 D-63403 Hanau |
| Telephone | : | +49 (0)6181/59-5767 |
| Telefax | : | +49 (0)6181/59-5879 |
| Email address | : | SDB@degudent.de |
| Emergency telephone number | : | +49 (0)180 / 23 24-555 |
| Use of the Substance / Preparation | : | For dental use only. |

2. HAZARDS IDENTIFICATION
Additional safety information for humans and the environment

On the basis of our data the product is not a hazardous substance as defined by the Chemicals Act or Hazardous Substance Ordinance in the currently valid versions.

3. COMPOSITION/INFORMATION ON INGREDIENTS
Information on ingredients / Hazardous components

| | | | |
|-----------------------------|----------|--------|-----------|
| • butane-1,4-diol | | < 25% | |
| CAS-No. | 110-63-4 | EC-No. | 203-786-5 |
| | Xn | | |
| | R22 | | |
| • Hexane-1,2,6-triol | | > 75% | |
| CAS-No. | 106-69-4 | EC-No. | 203-424-6 |

See chapter 16 for text of risk phrases

4. FIRST AID MEASURES
General advice

Take off all contaminated clothing immediately.

Inhalation

Provide fresh air, seek medical advice if necessary.

Skin contact

Wash off with plenty of water and soap, seek medical advice if necessary.

Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Seek medical advice.

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Ingestion

Clean mouth with water and drink afterwards plenty of water.
Induce vomiting, but only if victim is fully conscious.
Consult a physician immediately.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

dry powder, CO₂, alcohol-resistant foam, water spray

Specific hazards during fire fighting

In the case of fire, the following hazardous smoke fumes may be produced:
Carbon monoxide
carbon dioxide

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.
Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities.
Fire residues should be disposed of in accordance with the regulations.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Wear personal protective equipment.
Handle in accordance with good industrial hygiene and safety practices.

Environmental precautions

Do not allow the product into the following compartments:
sewage water
stretches of water
drainage systems

Methods for cleaning up

Absorb with liquid-binding material (e.g. inert absorbent sand universal binder).
Dispose of absorbed material in accordance with the regulations.

7. HANDLING AND STORAGE**Handling****Safe handling advice**

Avoid contact with skin and eyes.
Handle in accordance with good industrial hygiene and safety practices.

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Storage**Requirements for storage areas and containers**

Do not store together with: oxidizing agents
Keep container tightly closed and in a well-ventilated place.
Store in the original receptacle, keeping this tightly sealed, under cool and dry conditions.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters****Engineering measures**

Ensure suitable suction/aeration at the work place and with operational machinery.

Personal protective equipment**Hand protection**

Wear protective gloves made of the following materials: rubber or plastics.
Suitability for specific workplaces should be clarified with protective glove manufacturers.

Eye protection

Safety glasses with side-shields

Hygiene measures

No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work.
Immediately change moistened and saturated work clothes.

Protective measures

Handle in accordance with good industrial hygiene and safety practices.
If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

| | |
|--------|----------------|
| Form | viscous liquid |
| Colour | light yellow |
| Odour | odourless |

Safety data

| | | | |
|------------------|---------------------------|----------|---------|
| pH | ca. 10 | (40 g/l) | (20 °C) |
| Density | ca. 1.1 g/cm ³ | | (20 °C) |
| Water solubility | soluble | | |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| Conditions to avoid | None known |
| Materials to avoid | None known |
| Hazardous decomposition products | No hazardous decomposition products known. |
| Hazardous reactions | Reaction with strong oxidants. |

11. TOXICOLOGICAL INFORMATION

No results of animal experiments with this preparation are available.

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| | |
|---------------------------|--|
| Acute oral toxicity | LD50 rat: 1525 mg/kg related to substance: butane-1,4-diol |
| Acute inhalation toxicity | LC50 Rat: > 5.1 mg/l / 4 h related to substance: butane-1,4-diol |
| Acute dermal toxicity | LD50 Rabbit: > 2000 mg/kg related to substance: butane-1,4-diol |
| Skin irritation | Rabbit not irritating Method: OECD Test Guideline 404 related to substance: Hexane-1,2,6-triol |
| Eye irritation | Rabbit not irritating Method: OECD Test Guideline 405 related to substance: Hexane-1,2,6-triol |
| Repeated dose toxicity | Oral Rat Testing period: 90 d NOEL: ca. 1000 mg/kg target organ/effect: body weight development negative Feeding experiments related to substance: Hexane-1,2,6-triol Oral Rat Testing period: 2 years NOEL: 100 mg/kg target organ/effect: Kidney, Liver Feeding experiments chronic related to substance: Hexane-1,2,6-triol |
| Human experience | To date handling this product has not been known to cause any detrimental effects. |

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

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|------------------|--|
| Biodegradability | Result: 96 % Method: OECD 301 E readily biodegradable related to substance: butane-1,4-diol |
|------------------|--|

Behaviour in environmental compartments

Ecotoxicity effects

No results of animal experiments with this preparation are available.

| | |
|------------------|---|
| Toxicity to fish | LC50 Cyprinus carpio: > 1240.00 mg/l / 96 h Method: EC 92/69 related to substance: butane-1,4-diol LC0 Cyprinus carpio: 1240 mg/l / 96 h |
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| | |
|----------------------|---|
| | Method: EC 92/69 related to substance: butane-1,4-diol |
| Toxicity to daphnia | EC50 Daphnia magna: 813 mg/l / 48 h Method: EC 92/69 related to substance: butane-1,4-diol NOEC Daphnia magna: >= 100.00 mg/l / 504 h Method: OECD 202 part 2 related to substance: butane-1,4-diol |
| Toxicity to algae | EC50 scenedesmus subspicatus: > 1000.00 mg/l / 72 h Method: EC 92/69 related to substance: butane-1,4-diol NOEC scenedesmus subspicatus: >= 1000.00 mg/l / 72 h Method: EC 92/69 related to substance: butane-1,4-diol |
| Toxicity to bacteria | EC 10 Pseudomonas putida / 16 h Method: Bringmann und Kühn, Z. Wasser Abwasser Forsch. 10, 87-98 (1977) related to substance: butane-1,4-diol |

13. DISPOSAL CONSIDERATIONS**Product**

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

14. TRANSPORT INFORMATION**Transport/further information**

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Statutory basis/list

Not subject to labelling provisions according to the Dangerous Preparations Directive (1999/45/EG).

National legislation

16. OTHER INFORMATION**Risk phrase (R phrase) texts**

- **butane-1,4-diol**

R22

Harmful if swallowed.

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Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.