

Material Safety Data Sheet

According to 91/155 EEC

Printing date 16.12.2005

Reviewed on 16.12.2005

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1 Identification of substance

. Product details

- . Trade name** *Dentatec Pro-Cad*
- . Application of the substance / the preparation** *Milling additive*
- . Manufacturer/Supplier:** *Supplier: SIRONA Dental System GmbH
Fabrikstraße 31
d-64625 Bensheim*
- http://www.sirona.de*
- Telefon: +49(0)6251/16-3440
Telefax: +49(0)6251/16-2935*
- Manufacturer: Graichen Produktions-und Vertriebs-GmbH
Darmstädterstraße 127-129
D-64625 Bensheim*
- . Informing department:** *Environment protection department*
- . Emergency information:** *Advice centre for poisoning university Mainz phone +49(0)6131/19240
or poison information: +49(0)700/GIFTINFO*

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2 Composition/Data on components:

- . Chemical characterization**
- . Description:** *Milling additive*
- . Dangerous components:**
- CAS: 52-51-7 bronopol (INN) < 2.5%*
- EINECS: 200-143-0 Xn, N; R 21/22-37/38-41-50*
- Gemisch aus: 5-Chlor-2-methyl-2H-isothiazol-3-on [EG nr. 247-500-7] und 2-Methyl-2H-isothiazol-3-on [EG nr. 220-239-6] (3:1) < 2.5%*
- T, N; R 23/24/25-34-43-50/53*

3 Hazards identification

- . Hazard designation:** *Xi Irritant*
- . Information pertaining to particular dangers for man and environment** *The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
R 43 May cause sensitisation by skin contact.*
- . Classification system** *The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.*

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4 First aid measures

- . After inhalation:** *Supply fresh air; consult doctor in case of symptoms.*
- . After skin contact:** *Instantly wash with water and soap and rinse thoroughly.*
- . After eye contact:** *Rinse opened eye for several minutes under running water. Then consult doctor.*
- . After swallowing:** *Seek immediate medical advice.*

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(Contd. of page 1)

* 5 Fire fighting measures

- . **Suitable extinguishing agents:** CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- . **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- . **Special hazards caused by the material, its products of combustion or flue gases:** Formation of toxic gases is possible during heating or in case of fire.
- . **Protective equipment:** Wear self-contained breathing apparatus.

* 6 Accidental release measures

- . **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- . **Measures for environmental protection:** No special measures required.
- . **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- . **Additional information:** See Section 13 for information on disposal.

7 Handling and storage

- . **Handling**
- . **Information for safe handling:** Open and handle container with care.
Store in cool, dry conditions in well sealed containers.
- . **Information about protection against explosions and fires:** No special measures required.
- . **Storage**
- . **Requirements to be met by storerooms and containers:** No special requirements.
- . **Information about storage in one single storage facility:** Store away from food.
- . **Further information about storage conditions:** Store container in a well ventilated position.

* 8 Exposure controls and personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **Components with critical values that require monitoring at the workplace:**
56-81-5 glycerol
OEL 10 mg/m³
- . **Additional information:** The lists that were valid during the compilation were used as basis.
- . **Personal protective equipment**
- . **General protective and hygienic measures** Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
- . **Breathing equipment:** Not required.
- . **Protection of hands:** Protective gloves.
- . **Material of gloves** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 3)

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(Contd. of page 2)

- . **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:** *Safety glasses recommended during refilling.*

* **9 Physical and chemical properties:**

. **General Information**

Form: *Fluid*
Colour: *Yellowish*
Smell: *Characteristic*

. **Change in condition**

Melting point/Melting range: *Nicht bekannt*
Boiling point/Boiling range: *290°C*

. **Flash point:** *160°C*

. **Ignition temperature:** *400°C*

. **Self-inflammability:** *Product is not selfigniting.*

. **Danger of explosion:** *Product is not explosive.*

. **Critical values for explosion:**

Lower: *0.9 Vol %*

. **Steam pressure at 20°C:** *<0.1 hPa*

. **Density at 20°C** *1.26 g/cm³*

. **Solubility in / Miscibility with Water:** *Emulsifiable*

. **pH-value at 20°C:** *> 5*

10 Stability and reactivity

- . **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- . **Dangerous reactions** *No dangerous reactions known*
- . **Dangerous products of composition:** *No dangerous decomposition products known*

* **11 Toxicological information**

- . **Acute toxicity:**
- . **Primary irritant effect:**
- . **on the skin:** *Irritant for skin and mucous membranes.*
- . **on the eye:** *Irritant effect.*
- . **Sensitization:** *Sensitization possible by skin contact.*
- . **Additional toxicological information:** *The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant*

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(Contd. of page 3)

* **12 Ecological information:**

- . **General notes:** *Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.*

* **13 Disposal considerations**

- . **Product:**
- . **Recommendation:** *Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- . **Uncleaned packagings:**
- . **Recommendation:** *Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.*
- . **Recommended cleaning agent:** *Water, if necessary with cleaning agent.*

* **14 Transport information**

- . **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- . **ADR/RID-GGVS/E Class:** -
- . **Maritime transport IMDG/GGVSea:**
- . **IMDG/GGVSea Class:** -
- . **Marine pollutant:** No
- . **Air transport ICAO-TI and IATA-DGR:**
- . **ICAO/IATA Class:** -
- . **Transport/Additional information:**
Not dangerous according to the above specifications.

* **15 Regulatory information**

- . **Designation according to EC guidelines:** *The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)*
- . **Code letter and hazard designation of product:** *Xi Irritant*
- . **Hazard-determining components of labelling:** *5-chloro-2-methyl-2H-isothiazol-3-on*
- . **Risk phrases:** *43 May cause sensitisation by skin contact.*
- . **Safety phrases:**
- 2 Keep out of the reach of children.*
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).*
- 24/25 Avoid contact with skin and eyes.*
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*
- 37 Wear suitable gloves.*
- 46 If swallowed, seek medical advice immediately and show this container or label.*
- 56 Dispose of this material and its container to hazardous or special waste collection point.*

(Contd. on page 5)

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(Contd. of page 4)

. **National regulations**

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

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. **Department issuing data specification sheet:**

Environment protection department.

. **Contact:**

Mr. Roland Fell

. *** Data compared to the previous version altered.**

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