

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 18.07.2007

Revision: 18.07.2007

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1 Identification of substance

. Product details

. Trade name *Dentatec*

. 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*

2 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 36/38 Irritating to eyes and skin.

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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3 Composition/information on ingredients

. Chemical characterization

. Description: *Milling additive*

. Dangerous components:

CAS: 52-51-7 bronopol (INN) < 2.5%

EINECS: 200-143-0 Xn, Xi, N; R 21/22-37/38-41-50

CAS: 55965-84-9 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl- < 2.5%

2-Hisothiazol-3-one [EC no. 220-239-6] (3:1) mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)

T, C, N; R 23/24/25-34-43-50/53

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4 First aid measures

. General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

. After inhalation:

Supply fresh air; consult doctor in case of symptoms.

. After skin contact:

If skin irritation continues, consult a doctor.

. After eye contact:

Instantly wash with water and soap and rinse thoroughly.

. After swallowing:

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

Rinse out mouth and then drink plenty of water.

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* 5 Fire fighting measures

- . **Suitable extinguishing agents:** CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- . **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:** Do not allow to enter drainage system, surface or ground water.
- . **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:** Store only in the original container.
- . **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 (50-100%)
OEL 10 mg/m³

- . **Additional Occupational Exposure Limit Values for possible hazards during processing:**

Country	Components	Categorie	mg/m ³
Germany	2-methyl-4-isothiazolin-3-on	MAK	0,05
	5-chloro-2-methyl-4-isothiazolin-3-on	MAK	0,05
		MAK Skin"	0,05
Netherlands	Mixture of 5-chloro-2-methyl-4-isothiazolin-3-on, 2-methyl-4-isothiazolin-3-on (3:1)	MAC TGG	0,2
Switzerland	2-methyl-4-isothiazolin-3-one (inhale dust)	TWA	0,2
		STEL	0,4
	5-chloro-2-methyl-4-isithiazolin-3-on (inhale dust)	TWA	0,2
		STEL	0,4

- . **Additional information:** The lists that were valid during the compilation were used as basis.
- . **Personal protective equipment**
- . **General protective and hygienic measures** Keep away from foodstuffs, beverages and food.

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. **Breathing equipment:**. **Protection of hands:**. **Material of gloves**. **Penetration time of glove material**. **Not suitable are gloves made of the following materials:**. **Eye protection:**

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Not required.

Protective gloves.

Nitrile rubber, NBR

Recommended thickness of the material: $\geq 0,7$ mmValue for the permeation: Level $\geq 0,7$ mm 480 min (8h)EN 374

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Natural rubber, NR

PVA gloves

Tightly sealed safety glasses.

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9 Physical and chemical properties:

. **General Information****Form:**

Fluid

Colour:

Yellowish

Smell:

Characteristic

. **Change in condition****Melting point/Melting range:**

Not determined

Boiling point/Boiling range:

100°C

. **Flash point:**

101°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:**

23 hPa

. **Density at 20°C**1.202 g/cm³. **Solubility in / Miscibility with Water:**

Emulsifiable

. **pH-value at 20°C:**

> 4

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

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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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. *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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