

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 27.07.2007

Revision: 27.07.2007

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1 Identification of substance

Product details

Trade name Dentabase

Application of the substance / the preparation Neutralizing agent

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 Hazards identification

Hazard designation: C Corrosive

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 35 Causes severe burns.

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.

3 Composition/information on ingredients

Chemical characterization

Description: Caustic soda solution

Dangerous components:

CAS: 1310-73-2 Caustic soda
EINECS: 215-185-5

C; R 35 25-50%

4 First aid measures

General information:

Instantly remove any clothing soiled by the product.

After inhalation:

Supply fresh air; consult doctor in case of symptoms.

After skin contact:

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

After eye contact:

Instantly wash with water and soap and rinse thoroughly.

After swallowing:

Rinse opened eye for several minutes under running water. Then consult doctor.

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

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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.

Protective equipment:

Wear self-contained breathing apparatus.

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6 Accidental release measures

- . **Person-related safety precautions:** *Ensure adequate ventilation
Refer to Nr. 8*
- . **Measures for environmental protection:** *Do not allow to enter drainage system, surface or ground water.
Dilute with much water.*
- . **Measures for cleaning/collecting:** *Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.*

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7 Handling and storage

- . **Handling**
- . **Information for safe handling:** *Open and handle container with care.*
- . **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:** *Protect from frost.
Store container in a well ventilated position.*

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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:**
*1310-73-2 Caustic soda
OES Short-term value: 2 mg/m³*
- . **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.
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.*
- . **Breathing equipment:** *Not required.*
- . **Protection of hands:** *Alkaline resistant gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*
- . **Material of gloves** *Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
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.*
- . **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:** *Tightly sealed safety glasses.*
- . **Body protection:** *Protective work clothing.*

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9 Physical and chemical properties:

General Information

Form: Fluid
Colour: Colourless
Smell: Odourless

Change in condition

Melting point/Melting range: -6°C
Boiling point/Boiling range: 100°C

Flash point: Not applicable

Self-inflammability: Product is not selfigniting.

Danger of explosion: Product is not explosive.

Steam pressure at 20°C: 23 hPa

Density at 20°C 1.5 g/cm³

Solubility in / Miscibility with Water: Fully miscible

pH-value at 20°C: 13.2

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10 Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Materials to be avoided: oxidizing agents

Acid

Metals (aluminium, lead, Zink, tin)

Dangerous reactions Reacts with light alloys (Al) to form hydrogen

Dangerous products of composition: No dangerous decomposition products known

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:

1310-73-2 Caustic soda

Oral LD50 2000 mg/kg (rat)

Primary irritant effect:

on the skin: Strong caustic effect on skin and mucous membranes.

on the eye: Strong caustic effect.

Sensitization: No sensitizing effect known.

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:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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12 Ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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13 Disposal considerations

- . **Product:**
- . **Recommendation:** Must be specially treated under adherence to official regulations.
- . **European waste catalogue**
 - 06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES
 - 06 02 00 wastes from the MFSU of bases
 - 06 02 04 sodium and potassium hydroxide
- . **Uncleaned packagings:**
- . **Recommendation:** Non contaminated packagings can be treated like household garbage.
- . **Recommended cleaning agent:** Water, if necessary with cleaning agent.

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14 Transport information

- . **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
 - . **ADR/RID-GGVS/E Class:** 8 (C5) Corrosive substances.
 - . **Kemler Number:** 80
 - . **UN-Number:** 1824
 - . **Packaging group:** II
 - . **Label** 8
 - . **Designation of goods:** 1824 SODIUM HYDROXIDE SOLUTION
- . **Maritime transport IMDG/GGVSea:**
 - . **IMDG/GGVSea Class:** 8
 - . **UN Number:** 1824
 - . **Label** 8
 - . **Packaging group:** II
 - . **EMS Number:** F-A,S-B
 - . **Marine pollutant:** No
 - . **Correct technical name:** SODIUM HYDROXIDE SOLUTION
- . **Air transport ICAO-TI and IATA-DGR:**
 - . **ICAO/IATA Class:** 8
 - . **UN/ID Number:** 1824
 - . **Label** 8
 - . **Packaging group:** II
 - . **Correct technical name:** SODIUM HYDROXIDE SOLUTION

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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:** C Corrosive
- . **Hazard-determining components of labelling:** Caustic soda
- . **Risk phrases:** 35 Causes severe burns.
- . **Safety phrases:**
 - 20 When using do not eat or drink.
 - 23 Do not breathe fumes/aerosol.
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 - 51 Use only in well-ventilated areas.
 - 60 This material and its container must be disposed of as hazardous waste.
- . **National regulations**
- . **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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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.

. **Contact:** Mr. Roland Fell

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

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