

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.10.2017

Version number 1801


Revision: 26.10.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier** 5.0
- Trade name: **Dentabase**
- Article number: 3010-0449
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- Application of the substance / the mixture Milling additive
No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- Manufacturer/Supplier: SIRONA Dental Systems GmbH
Fabrikstraße 31
D-64625 Bensheim
Germany
<http://www.sirona.de>
Tel.: +49 (0) 6251/16-1670
Fax: +49 (0) 6251/16-1818
- Manufacturer: Graichen Produktions-und Vertriebs-GmbH
Darmstädterstraße 127-129
D-64625 Bensheim
Germany
Tel.: +49 6251 73103
Fax: +49 6251 77901
E-Mail: ehs@graichen-bensheim.de
www.graichen.net
- Further information obtainable from: Environment protection department
- **1.4 Emergency telephone number:** Advice centre for poisoning university Mainz phone +49(0)6131/19240
or poison information:+49(0)700/GIFTINFO

SECTION 2: Hazards identification


- **2.1 Classification of the substance or mixture**
- Classification according to Regulation (EC) No 1272/2008
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

- **2.2 Label elements**
- Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
- Hazard pictograms 
- GHS05
- Signal word Danger
- Hazard-determining components of labelling: sodium hydroxide
- Hazard statements H314 Causes severe skin burns and eye damage.
- Precautionary statements P260 Do not breathe dusts or mists.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Dangerous components:

| | | | |
|-------------------|------------------|---|--------|
| CAS: 1310-73-2 | sodium hydroxide |  Skin Corr. 1A, H314 | 25-50% |
| EINECS: 215-185-5 | | | |

- Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
 - General information: Immediately remove any clothing soiled by the product.
 - After inhalation: Supply fresh air; consult doctor in case of complaints.
 - After skin contact: Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
 - After eye contact: Immediately wash with water and soap and rinse thoroughly.
Call a doctor immediately.
 - After swallowing: Rinse opened eye for several minutes under running water. Then consult a doctor.
Rinse out mouth and then drink plenty of water.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
 - Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- Information about fire - and explosion protection: No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - Storage: Store only in the original receptacle.
 - Requirements to be met by storerooms and receptacles: Store away from foodstuffs.
 - Information about storage in one common storage facility: Protect from frost.
Store receptacle in a well ventilated area.
 - Further information about storage conditions: No further relevant information available.
- **7.3 Specific end use(s)**

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

1310-73-2 sodium hydroxide

WEL Short-term value: 2 mg/m³

- Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.

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- | | |
|---|--|
| <ul style="list-style-type: none"> · Respiratory protection: · Protection of hands: | <p>Avoid contact with the eyes. Avoid contact with the eyes and skin. Not required.</p> |
| <ul style="list-style-type: none"> · Material of gloves | <p>Alkaline resistant gloves Protective 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</p> |
| <ul style="list-style-type: none"> · Penetration time of glove material | <p>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.</p> |
| <ul style="list-style-type: none"> · Eye protection: · Body protection: | <p>Value for the permeation: Level \leq 0,7 mm 480min (8h) EN374 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. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p> <p>Tightly sealed goggles Protective work clothing</p> |

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- General Information
- Appearance:

| | |
|---------|------------|
| Form: | Fluid |
| Colour: | Colourless |
- Odour: Odourless
- Odour threshold: Not determined.
- pH-value at 20 °C: 13,2
- Change in condition

| | |
|--|--------|
| Melting point/freezing point: | -6 °C |
| Initial boiling point and boiling range: | 100 °C |
- Flash point: Not applicable.
- Flammability (solid, gas): Not applicable.
- Ignition temperature:

| | |
|----------------------------|-----------------|
| Decomposition temperature: | Not determined. |
|----------------------------|-----------------|
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Not determined.
- Vapour pressure at 20 °C: 23 hPa
- Density at 20 °C: 1,5 g/cm³
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Fully miscible.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:

| | |
|----------|-----------------|
| Dynamic: | Not determined. |
|----------|-----------------|
- Solvent content:

| | |
|-------------------|--------|
| Organic solvents: | 0,0 % |
| Water: | 62,5 % |
- Solids content: 50,0 %
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with light alloys to form hydrogen.
- **10.4 Conditions to avoid** No further relevant information available.

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- | | |
|--|---|
| <ul style="list-style-type: none"> · 10.5 Incompatible materials: · 10.6 Hazardous decomposition products: | <p style="text-align: right;">(Contd. of page 3)</p> <p>oxidizing agents</p> <p>Hazardous thermal decomposition products may include: Formaldehyde, Carbon dioxide, Carbon monoxide, Methanol</p> |
|--|---|

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- Acute toxicity: Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

1310-73-2 sodium hydroxide

| | |
|-----------|-------------------|
| Oral LD50 | 1,350 mg/kg (rat) |
|-----------|-------------------|

- Primary irritant effect: Causes severe skin burns and eye damage.
- Skin corrosion/irritation: Causes serious eye damage.
- Serious eye damage/irritation: Causes serious eye damage.
- Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability**: No further relevant information available.
- **12.3 Bioaccumulative potential**: No further relevant information available.
- **12.4 Mobility in soil**: No further relevant information available.
- Additional ecological information:
- General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised. 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. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- PBT: Not applicable.
- vPvB: Not applicable.
- **12.6 Other adverse effects**: No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- Recommendation: Must be specially treated adhering 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 packaging:
- Recommendation: Non contaminated packagings may be treated like household garbage.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN-Number**
- ADR, IMDG, IATA: UN1824
- **14.2 UN proper shipping name**
- ADR: 1824 SODIUM HYDROXIDE SOLUTION
- IMDG, IATA: SODIUM HYDROXIDE SOLUTION
- **14.3 Transport hazard class(es)**
- ADR:



- Class: 8 (C5) Corrosive substances.

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| | |
|---|--|
| · Label | 8 |
| ----- | |
| · IMDG, IATA | |
|  | |
| · Class | 8 Corrosive substances. |
| · Label | 8 |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | II |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Warning: Corrosive substances. |
| · Danger code (Kemler): | 80 |
| · EMS Number: | F-A,S-B |
| · Segregation groups | Alkalis |
| · Stowage Category | A |
| · Segregation Code | SG35 Stow "separated from" acids. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| ----- | |
| · Transport/Additional information: | |
| · ADR | 1L |
| · Limited quantities (LQ) | Code: E2 |
| · Excepted quantities (EQ) | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 500 ml |
| · Transport category | 2 |
| · Tunnel restriction code | E |
| ----- | |
| · IMDG | 1L |
| · Limited quantities (LQ) | Code: E2 |
| · Excepted quantities (EQ) | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII
- **15.2 Chemical safety assessment:** Conditions of restriction: 3
A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Environment protection department.
- Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

- * Data compared to the previous version altered.