

**Safety Data Sheet**

according to Regulation (EC) No. 1907/2006

**Fluxes**

Print date: 23.11.2011

Product code: 142-100-50

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

Fluxes

**Further trade names**

Article no.: 142-100-50

CAS No.: 1303-96-4

Index No.: 005-011-01-1

EC No.: 215-540-4

**Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Health services.

**Details of the supplier of the safety data sheet**

Company name: DENTAURUM GmbH &amp; Co. KG

Street: Turnstr. 31

Place: D-75228 Ispringen

Telephone: +49 7231 803 0

Telefax: +49 7231 803 295

e-mail: info@dentaurum.de

Internet: www.dentaurum.com

**Further Information**

Emergency telephone:

07:00 - 16:15 (Mo - Do), 07:00 - 13:15 (Fr) +49 7231 803 184

16:15 - 18:00 (Mo - Do), 13:15 - 18:00 (Fr) +49 7231 803 0

**SECTION 2: Hazards identification****Classification of the substance or mixture**

Indications of danger : Repr. Cat. 2

R-phrases:

May impair fertility.

May cause harm to the unborn child.

**GHS classification**

Hazard categories:

Reproductive toxicity: Repr. 1B

Hazard Statements:

May damage fertility. May damage the unborn child.

**Label elements**

Signal word: Danger

Pictograms: GHS08

**Hazardous components which must be listed on the label**

disodium tetraborate decahydrate; borax decahydrate

**Hazard statements**

May damage fertility. May damage the unborn child.

May cause damage to organs through prolonged or repeated exposure.

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**Precautionary statements**

Obtain special instructions before use.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.

**SECTION 3: Composition/information on ingredients****Substances****Chemical characterization**

Fluxes

**Hazardous components**

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
215-540-4	disodium tetraborate decahydrate; borax decahydrate	
1303-96-4	Repr. Cat. 2 R60-61	100 %
005-011-01-1	Repr. 1B; H360FD	

Full text of R- and H-phrases: see section 16.

**SECTION 4: First aid measures****Description of first aid measures****General information**

First aid assistant: Pay attention to self-protection!  
Remove contaminated clothing immediately and dispose off safely.

**After inhalation**

Provide fresh air. Medical treatment necessary.

**After contact with skin**

Wash with generous amount of water.  
In case of skin irritation, seek medical treatment.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion**

Do not induce vomiting.  
Rinse mouth immediately and drink large quantities of water.  
Immediately get medical attention.  
If swallowed, seek medical advice immediately and show this container or label.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**

Extinguishing materials should be selected according to the surrounding area.

**Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.  
Full protective suit.

**SECTION 6: Accidental release measures**

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### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eye and clothing. Wear personal protection equipment.

### Environmental precautions

Do not empty into drains or the aquatic environment.  
Do not allow to enter into soil/subsoil.  
Retain contaminated washing water and dispose.

### Methods and material for containment and cleaning up

Collect mechanically.  
Treat the assimilated material according to the section on waste disposal.

## SECTION 7: Handling and storage

### Precautions for safe handling

#### **Advice on safe handling**

Handle and open container with care.  
Provide adequate ventilation.  
Avoid generation of dust.

#### **Advice on protection against fire and explosion**

Use appropriate respiratory protection.

### Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

No special measures are necessary.

#### **Advice on storage compatibility**

Keep away from food, drink and animal feedingstuffs.

#### **Further information on storage conditions**

Protect from sunlight.

## SECTION 8: Exposure controls/personal protection

### Control parameters

### Exposure controls

#### **Protective and hygiene measures**

Take off immediately all contaminated clothing. After work, wash hands and face.  
When using do not eat or drink.  
Keep away from food, drink and animal feedingstuffs. Avoid contact with skin and eyes.  
Store work clothing separately. Do not breathe dust.

#### **Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment. P1  
In the case of the formation of dust.

#### **Hand protection**

Wear protective gloves.

#### **Eye protection**

Tightly sealed safety glasses.

#### **Skin protection**

Protective clothing.

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**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Physical state: solid  
Colour: colourless  
Odour: odourless

**Test method**

pH-Value (at 20 °C): 9,2

**Changes in the physical state**

Melting point: 75 °C

**Explosive properties**

not explosive.

Vapour pressure: 0,213 hPa  
(at 20 °C)

Density (at 20 °C): 1,73 g/cm<sup>3</sup>

Water solubility: 51,5 g/L  
(at 20 °C)

**SECTION 10: Stability and reactivity****Possibility of hazardous reactions**

none/none

**Incompatible materials**

Materials to avoid:  
Oxidizing agents, strong.  
Exothermic reactions with: acid

**Hazardous decomposition products**

none/none

**SECTION 11: Toxicological information****Information on toxicological effects****Acute toxicity**

Acute toxicity, oral: LD50: 2660 mg/kg Rat.  
Acute toxicity, dermal: LD50: > 2000 mg/kg

**Irritation and corrosivity**

Irritant effect on the skin: none/none  
Irritant effect on the eye: slightly irritant but not relevant for classification.  
Irritant effect on the respiratory tract: May cause respiratory irritation.

**Sensitizing effects**

none/none

**Carcinogenic/mutagenic/toxic effects for reproduction**

May impair fertility. May damage the unborn child.

**Empirical data on effects on humans**

after ingestion: Nausea. vomiting.

**SECTION 12: Ecological information****Toxicity**

Acute fish toxicity: LC50: 630 mg/l/72 h Carassius auratus (goldfish)

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Acute Daphnia toxicity: EC50: 1085-1402 mg/l/48 h (Daphnia magna)

Algae toxicity: IC50: 158 mg/l/96 h (Desmodesmus subspicatus.)

**Persistence and degradability**

Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****Waste treatment methods****Advice on disposal**

Waste disposal according to official state regulations.

**Contaminated packaging**

Waste disposal according to official state regulations.

**SECTION 14: Transport information****Other applicable information**

Not a hazardous material with respect to transportation regulations.

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

May impair fertility.

May cause harm to the unborn child.

**Full text of H-Statements referred to under sections 2 and 3**

May damage fertility. May damage the unborn child.

May cause damage to organs through prolonged or repeated exposure.

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.