

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 & 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	100 %
1303-96-4	Repr. Cat. 2 R60-61	
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 immediatley 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/cm³

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.