

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Rema Flux

Print date: 13.10.2011

Product code: 102-304

Page 1 of 6

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

Product identifier

Rema Flux

Further trade names

Article no.: 102-304-00

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 : Toxic, Harmful
R-phrases:
May impair fertility.
May cause harm to the unborn child.
Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

GHS classification

Hazard categories:
Reproductive toxicity: Repr. 1B
Specific target organ toxicity - repeated exposure: STOT RE 2
Hazard Statements:
May damage fertility. May damage the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Label elements

Signal word: Danger
Pictograms: GHS08



Hazardous components which must be listed on the label

disodium tetraborate pentahydrate; borax pentahydrate
boric acid
tripotassium hexafluoroaluminate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Rema Flux

Print date: 13.10.2011

Product code: 102-304

Page 2 of 6

Hazard statements

- H360FD May damage fertility. May damage the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P281 Use personal protective equipment as required.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container to

SECTION 3: Composition/information on ingredients

Mixtures

Chemical characterization

Fluxes

Hazardous components

| EC No. | Chemical name | Quantity |
|--------------|---|--------------|
| CAS No. | Classification | |
| Index No. | GHS classification | |
| REACH No. | | |
| 215-540-4 | disodium tetraborate pentahydrate; borax pentahydrate | 6,5 - < 30 % |
| 12179-04-3 | Repr. Cat. 2 R60-61 | |
| 005-011-02-9 | Repr. 1B; H360FD | |
| 233-139-2 | boric acid | 5,5 - < 30 % |
| 10043-35-3 | Repr. Cat. 2 R60-61 | |
| 005-007-00-2 | Repr. 1B; H360FD | |
| 213-791-2 | water | 20 - 30 % |
| 7732-18-5 | | |
| | tripotassium hexafluoroaluminate | 5 - 15 % |
| 13775-52-5 | Xn, Xi R36-48/20/22 | |
| | | |
| | quartz | 1 - < 10% |
| 14808-60-7 | Xn R48/20 | |
| | STOT RE 1; H372 | |

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

SECTION 4: First aid measures

Description of first aid measures

After inhalation

- Provide fresh air.
 In all cases of doubt, or when symptoms persist, seek medical advice.
 Move victim out of danger zone.

After contact with skin

- Rinse immediately carefully and thoroughly with eye-bath or water.
 Remove contaminated clothing immediately and dispose off safely.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Rema Flux

Print date: 13.10.2011

Product code: 102-304

Page 3 of 6

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.
Immediately get medical attention.

After ingestion

Rinse mouth thoroughly with water.
Rinse mouth immediately and drink large quantities of water.
Immediately get medical attention.

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.

Additional information

Use a water spray jet to knock down vapours/gases/mists. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.
Avoid generation of dust.
Avoid contact with skin and eyes.
Conditions to avoid: Inhalation

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods and material for containment and cleaning up

Collect mechanically.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Provide adequate ventilation.
Do not breathe smoke.
Do not breathe dusts or mists.
Do not eat, drink or smoke when using this product.
Do not store together with: Food and fodder
Equipment with built-in suction provisions.
Wash hands before breaks and at the end of work.
Keep away from food, drink and animal feedingstuffs.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container.
Keep container tightly closed.
Keep locked up.
Store in a place accessible only to authorized persons.
Keep container in a well-ventilated place.
Storage: at room temperature

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Rema Flux

Print date: 13.10.2011

Product code: 102-304

Page 4 of 6

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure controls

Occupational exposure controls

Provide adequate ventilation.

Protective and hygiene measures

Take off immediately all contaminated clothing. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Respiratory protection

exceeding critical value: Filter respirator (full mask or mouth-piece) with filter: B E P3 EN 14387

Hand protection

Rubber gloves.

Eye protection

Tightly sealed safety glasses.

Skin protection

Protective clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|-----------------|-------------|
| Physical state: | Paste |
| Colour: | light brown |
| Odour: | odourless |

Test method

| | |
|----------------------|---|
| pH-Value (at 20 °C): | 8 |
|----------------------|---|

Changes in the physical state

| | |
|---------------------------------|-----------------------|
| Melting point: | 700 °C |
| Boiling point: | 110 °C |
| Density: | 1,5 g/cm ³ |
| Water solubility: (at 20 °C) | ca. 180 g/L |
| Viscosity / dynamic: | 3000-8000 mPa·s |

SECTION 10: Stability and reactivity

Conditions to avoid

Keep away from heat.

Incompatible materials

Materials to avoid: Strong acid
Sulfuric acid.

Hazardous decomposition products

heat.: Formation of: Fluorhydric acid.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Toxic. Acute toxicity, inhalant. Acute toxicity, dermal.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Rema Flux

Print date: 13.10.2011

Product code: 102-304

Page 5 of 6

Acute toxicity, oral: LD50: 5110 mg/kg Rat.

Irritation and corrosivity

Skin corrosion/irritation: Rabbit. Not an irritant.

Serious eye damage/eye irritation: Rabbit. Not an irritant.

Severe effects after repeated or prolonged exposure

Danger of serious damage to health by prolonged exposure.

Carcinogenic/mutagenic/toxic effects for reproduction

May impair fertility. May damage the unborn child.

Additional information on tests

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

Toxicity

Toxicological data are not available.

Further information

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

Waste treatment methods

Advice on disposal

Waste disposal according to official state regulations.
06 02 99, 12 01 99, 16 05 07

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

- | | |
|----------|--|
| 36 | Irritating to eyes. |
| 48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| 48/20/22 | Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. |
| 60 | May impair fertility. |
| 61 | May cause harm to the unborn child. |

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

- | | |
|--------|--|
| H360FD | May damage fertility. May damage the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Rema Flux

Print date: 13.10.2011

Product code: 102-304

Page 6 of 6

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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)