

Home Nr.: 681-100 Revise at: 01.2010  
Name of Cmrce. **Dentaflux universal soldering flux**  
Version: 1.3 Class of: 01.2010  
Product no.: **681-100-00**  
Code:

---

### 01. Identification of the Substance and of the Company

#### Product Definition

Name of Cmrce.: Dentaflux universal soldering flux  
Product-Infos: Dentaflux universal soldering flux  
Manufacturer: DENTAURUM GmbH & Co. KG  
Turnstraße 31 D-75228 Ispringen

#### Information from

Emergency-Info: Chemie  
07231-803-184/190

### 02. Composition/Information on Ingredients

Chemical Nature:  
Mixture of borate

CAS: 85392-66-1	EG:	UN:	EINECS:
-----------------	-----	-----	---------

#### Dangerous Contents:

CAS number/Description:	Concentration:	GS:	R Phrases:
85392-66-1 potassium hydroxofluoroborate	60-80%	Xn	22
7440-42-8 boron	1-5%	Xn	22

### 03. Hazards Identification

22 Harmful if swallowed.  
38 Irritating to skin.

### 04. First-Aid Measures

- First aid measures / skin contact  
In case of contact with skin wash off immediately with plenty of water
- First aid measures / eye contact  
consult an eye-doctor  
In case of contact with eyes rinse thoroughly with water
- First aid measures/ if swallowed  
Refer for medical treatment.

#### 05. Fire-fighting Measures

- Extinguishing media that must not be used for safety reasons  
No restriction
- Special exposure hazards arising from the substance or preparation itself,  
combustion products or resulting gases  
Hydrogen fluoride (HF)
- Special protective equipment for firefighters  
Use breathing apparatus.

#### 06. Accidental Release Measures

- methods for cleaning up/taking up  
Flush away residues with water.

#### 07. Handling and Storage

- Advice on safe handling  
Provide good room ventilation
- Advice on protection against fire and explosion  
No special measures necessary
- Requirements for storage rooms and vessels  
No special measures required.

#### 08. Exposure Controls/Personal Protection

- Hand protection  
Protective gloves
- Eye protection  
tightly fitting goggles
- General protective measures  
Do not inhale vapours  
Avoid contact with eyes and skin
- Hygiene measures  
Do not eat or drink when working.  
Do not smoke when working.

#### Ingredients relating to Workplace-Limits to get supervised

CAS number/Description:	Concentration:	Typ:	Value:
7782-41-4 fluoride	-	MAK	3,000 mg/m <sup>3</sup> ml/m <sup>3</sup>
7664-39-3 hydrofluoric acid	-	MAK	2,000 mg/m <sup>3</sup> 3,000 ml/m <sup>3</sup>

### 09. Physical and chemical Properties

- Form  
Pasty
- Colour  
brown  
odourless
- pH-value: 5,5 (20°C)
- Changes in physical state 1, solid - liquid and others  
Melting point: 500°C
- Changes in physical state 2, liquid - gaseous and others  
Boiling point: 110°C
- Density / remarks: 1,40g/cm<sup>3</sup>
- Solubility in water / remarks: 500g/l (20°C)

### 10. Stability and Reactivity

- Hazardous reactions  
If product is heated above decomposition temperature toxic vapours may be released.  
With strong mineral acids hydrogen fluoride is produced.

### 11. Toxicological Information

- LD50: 744mg/kg  
Acute oral toxicity / species  
rat
- Irritant effect on skin / validation  
non-irritant
- Irritant effect on skin / species  
rabbit
- Irritant effect on eyes / validation
- Irritant effect on eyes / species  
rabbit eye

### 12. Ecological Information

- General information / ecology  
Do not allow to enter soil, waterways or waste water

### 13. Disposal Considerations

- Disposal / product  
Dispose of as hazardous waste.  
Waste code no. (only EC): 060399
- Disposal / contaminated packaging

### 14. Transport Information

No dangerous good

## 15. Regulatory Information

- Labelling  
The product is classified and labelled in accordance with EC directives/the relevant national laws.  
The R and S phrases can be omitted if the pack contains no more than 0.125 litres.  
Hazard symbols
- Xn Harmful  
R phrases
- 22 Harmful if swallowed.  
S phrases
- 2 Keep out of the reach of children.
- 24 Avoid contact with skin.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Restriction of occupation  
Observe employment restrictions for mothers-to-be and nursing mothers.
- Water hazard class / remarks  
Weakly water hazardous WGK 1



**Harmful**

## 16. Other Information

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

---