

**Veriflux**  
**Veriflux P**

Material no.		Version	<b>1.8 / GB</b>
Specification	<b>102878</b>	Revision date	<b>13.03.2009</b>
VA-Nr		Print Date	<b>22.06.2009</b>
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name : Veriflux  
Veriflux P

Company : DeguDent GmbH  
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Use of the Substance /  
Preparation : For dental use only.

**2. HAZARDS IDENTIFICATION****Classification**

Xn, Harmful

R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

**Additional safety information for humans and the environment**

Irritation and on occasion caustic effects to the skin and mucous membranes (eyes, respiratory channels, in the stomach/intestinal tracts after swallowing) are to be expected from local contact. hydrogen fluoride is released during processing.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Information on ingredients / Hazardous components**

- **tripotassium-hexafluoroaluminate**  
CAS-No. 13775-52-5 EC-No. 237-409-0
- **sodium chloride**  
CAS-No. 7647-14-5 EC-No. 231-598-3
- **disodium-octaborate**  
CAS-No. 12008-41-2 EC-No. 234-541-0

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See chapter 16 for text of risk phrases

**4. FIRST AID MEASURES****General advice**

Remove contaminated or saturated clothing.

**Inhalation**

Move victims into fresh air.

Consult a physician immediately.

**Skin contact**

Wash off with plenty of water.

Consult a physician immediately.

**Eye contact**

Keeping eyelid open, immediately rinse thoroughly for at least 5 minutes using plenty of water or, if necessary, eye rinsing solution.

Consult an ophthalmologist.

**Ingestion**

Have the mouth rinsed with water.

Have patient drink plenty of water in small sips.

Consult a physician immediately.

**Notes to physician**

Following inhalation of vapours / fumes:

Formation of a toxic lung edema is possible if product continues to be inhaled despite acute irritative effect (e.g. if it is not possible to leave the danger area).

Prophylaxis of a toxic lung oedema with inhalative steroids (Dexamethasone aerosol dosing spray, f.ex. auxilosone).

Alleviation of throat irritation with antitussive cough mixture (hydrocodon hydrogen tartrate, e.g. Dicodid).

If substance has been swallowed:

After oral intake, release of fluoride ions cannot be precluded.

Gastric irrigation under gastroscopic observation using calcium gluconate (formation of insoluble calcium fluorides in gastro-intestinal tract).

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

All extinguishing substances suitable.

**Extinguishing media which must not be used for safety reasons**

None known

**Specific hazards during fire fighting**

Risk of decomposition when exposed to heat.

In case of combustion or decomposition of the product, the fumes produced lead to irritations or inflammations of the respiratory tract.

In the case of fire, the following hazardous smoke fumes may be produced: hydrogen fluoride.

**Special protective equipment for fire-fighters**

In the event of fire, wear self-contained breathing apparatus.

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**Further information**

Water used to extinguish fire should not enter drainage systems, soil, or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities. Fire residues should be disposed of in accordance with the regulations.

**6. ACCIDENTAL RELEASE MEASURES**
**Personal precautions**

In case product dust is released:  
 Do not breathe dust.  
 Avoid formation of dust. Ensure sufficient ventilation.  
 Avoid contact with skin, eyes and clothing.

**Environmental precautions**

Prevent penetration into soil, stretches of water and drainage systems.

**Methods for cleaning up**

Sweep up or vacuum up spillage and collect in suitable container for disposal.

**7. HANDLING AND STORAGE**
**Handling**
**Safe handling advice**

Ensure suitable suction/aeration at the work place and with operational machinery.  
 Do not breathe vapour.  
 If necessary: Local ventilation.

**Storage**
**Requirements for storage areas and containers**

Keep in a dry place.  
 Keep tightly sealed in original packing.

**Storage stability**

Keep at temperatures of between 5 °C and 30 °C.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**
**Components with workplace control parameters**

- **tripotassium-hexafluoroaluminate**

CAS-No.	13775-52-5	EC-No.	237-409-0
Control parameters	2.5 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EU ELV)
Control parameters	2 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	2.5 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)

- **hydrogen fluoride**

CAS-No.	7664-39-3	EC-No.	231-634-8
Control parameters	1.8 ppm		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	1.5 mg/m <sup>3</sup>		
Control parameters	3 ppm		Short Term Exposure Limit (STEL):(EH40 WEL)

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	2.5 mg/m <sup>3</sup>	WEL)
Control parameters	1.8 ppm	Time Weighted Average (TWA):(EU ELV)
	1.5 mg/m <sup>3</sup>	
Control parameters	3 ppm	Short Term Exposure Limit (STEL):(EU ELV)
	2.5 mg/m <sup>3</sup>	

- **related to: fluoride**

CAS-No.	16984-48-8	
Control parameters	2.5 mg/m <sup>3</sup>	MAK:(TRGS 900)
Short-time value	4	
type of exposition	as an inhalable fraction	

### Engineering measures

hydrogen fluoride is released during processing.  
 Ensure suitable suction/aeration at the work place and with operational machinery.

### Personal protective equipment

#### Respiratory protection

When working without/without sufficient suction of objects:  
 Respirator with grey B-type filter

#### Hand protection

suitable protective gloves: e.g. rubber gloves, nitrile-butadiene rubber (NBR) gloves  
 Suitability for specific workplaces should be clarified with protective glove manufacturers.

#### Eye protection

Safety glasses with side-shields

#### Skin and body protection

suitable protective clothing recommended

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practices.  
 If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.  
 When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.  
 After contact with skin, wash immediately with plenty of water.  
 Do not inhale fumes, dust, vapour.  
 Draw off hydrogen fluoride vapours.  
 Do not swallow product.  
 Use suitable skin protective agents before handling product. Cleanse and apply cream to skin after work. Preventive skin protection recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	powder, tablets
Colour	white
Odour	odourless

### Safety data

pH	ca. 8	(10 g / l)	(20 °C)
	Medium:	water	
Melting point/range	ca. 750 °C		

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Water solubility ca. 50 g/l (20 °C)

**10. STABILITY AND REACTIVITY**

Hazardous decomposition products	decomposition products if heated above melting point. hydrogen fluoride-vapours
	decomposition products on heating sulphuric acid hydrogen fluoride
Hazardous reactions	No dangerous reactions are known to occur with correct handling and storage. Stable at room temperature.

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	LD50 Rat: > 5110 mg/kg
Skin irritation	Rabbit not irritating
Eye irritation	Rabbit not irritating

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)****Behaviour in environmental compartments****Ecotoxicity effects**

*No ecotoxicological studies are available.*

**Further information on ecology**

Further Information	Danger to groundwater and drinking water. Do not allow into stretches of water without pre-treating. The following substances are to be precipitated from rinsing and washing water using lime milk and disposed of: flouride
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**13. DISPOSAL CONSIDERATIONS****Product**

Disposal according to local authority regulations.

**Uncleaned packaging**

Disposal according to local authority regulations.

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## 14. TRANSPORT INFORMATION

### Transport/further information

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

### Labelling according to EC Directives

#### hazard-defining component(s)

- tripotassium-hexafluoroaluminate

<b>Symbol(s)</b>	Xn	Harmful
<b>R-phrases(s)</b>	R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
<b>S-phrase(s)</b>	S 2 S22 S26 S28 S37/39	Keep out of the reach of children. Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable gloves and eye/face protection.

### National legislation

employment restriction      Note employment restrictions for pregnant and lactating women.  
 Note employment restrictions for minors.

## 16. OTHER INFORMATION

### Risk phrase (R phrase) texts

### Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.