

Safety Data Sheet (EC) No. 1907/2006

1. Product- and Company Identification

<u>Trade name:</u>	DC Fluor, art. No. 716107
<u>Manufacturer:</u>	DC Dental Central Großhandelsges.mBH Carl-Zeiss-Str.2 D-22946 Trittau, Germany
<u>Further information obtainable from:</u>	Tel.: +49 (0)4154/8437 0 Fax: +49 (0)4154/8437 33
<u>Information in case of emergency:</u>	Same as above.

2. Composition/information on ingredients

Chemical characterization					
Preparation with organic components, Aqueous dispersion of an acrylpolymeric.					
Hazardous Ingredients:					
<u>Description:</u>	<u>CAS-No.:</u>	<u>EG-No.:</u>	<u>Classification:</u>	<u>R-phrases</u>	<u>Perc.%</u>
2,2'-[[3-[(2-Hydroxyethyl)octadecylamino]propyl]imino]bis-ethanol, Dihydrofluoride	6818-37-7	229891-6	Xn	R 22	1 – 2
Sodium fluoride	7681-49-4	231-667-8 EG-Index-No.: 009-004-00-7	T	R 25-32- 36/37	0,01 – 0,1
<u>Further information:</u> For the wording of the listed risk phrases refer to section 16.					

3. Hazards identification

<u>Harmful if swallowed:</u> The concentration of the fluorides in the acrylate dispersion is according the concentration like it is occurred in toothpaste. The acrylates in the dispersion are not toxic. Swallowing the content of just several bottles of fluorid varnish could be risky.
<u>Additional hazard advices for human and environment:</u> None.

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4. First aid measures

<u>After inhalation:</u>	Fresh air.
<u>After skin contact:</u>	Wash with plenty of water. Remove contaminated cloth.
<u>After eye contact:</u>	Rinse with plenty of water while holding eye open. As the case maybe call eye specialist.
<u>Ingestion:</u>	Drinking a lot of water, cause vomiting, consult doctor.

5. Fire-fighting measures

The mentioned procedures only refer to big barrels (10 liter and more). The declaration is senseless at the offered minimum quantity (bottles at 10 ml).

Suitable extinguishing agents:

Dry powder, water, foam.

Special hazards arising from the substance or mixture:

Not flammable. In case of burning formation of dangerous fire gases or steams possible. In case of burning could formate: hydrogen fluoride, nitrogen oxide.

Protective equipment for fire-fighters:

Staying in the hazard zone only with independent recirculation air breathing apparatus. Avoid skin contact by keeping a safety distance or wearing usable protective clothing.

Additional Advices:

Condense leaking steam with water. Avoid draining of fire water in surface water or ground water.

6. Accidental release measures

As the fluoride containing acrylate dispersion concerns as a varnish composing fluid, adequate safety measures are to implement. After drying, the liquid varnish is building a solid and connected layer of varnish where ever it reaches (if this is possible under the existing circumstances). The layer is very solid and could not be removed immediately with water. The layer must be impacted a long time with water to remove it.

Personal precautions, protective equipment and emergency procedures:

Do not breath vapour / aerosol. Avoid contact with substance. Arrange for fresh air in closed rooms.

Environmental precautions:

Do not allow to enter drains or ground water.

Methods and material for containment and cleaning up:

To absorb with liquid-binding material for example Chemizorb. Admit to disposal. Cleaning.

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7. Handling and storage

Handling:

Keep bottle tightly closed.

Storage:
Storage temperature:

Keep away of heat and frost.

Storage time:

3 years

Storage class:

12 (not flammable liquids)

8. Exposure controls/personal protection

Personal protective equipment:

The version of Body protection equipment has to be chosen specific to working station and in accordance of hazardous material concentration and amount. The resistance of the protection equipment should be checked with Supplier.

Eye protection:

As the dispersion is a varnish-building liquid, eye-protection is necessary.

Breathing protection:

Breathing protection is only necessary on effect of vapour / Aerosol.

Hand protection:

Disposable gloves are sufficient for working in the practice.

Hygienic Measures:

Change contaminated clothes. Preventive skin protection is recommended.
Clean hands after work.

PNCE and DNCL-Values as to be possibly worked out in a preparation safety report do not exist.

9. Physical and chemical properties

<u>Form:</u>	Liquid.
<u>Colour:</u>	Whitely.
<u>Odour:</u>	Slight inherent smell.
<u>Point of congeal:</u>	<0° C.
<u>Boiling point:</u>	Ca. 100° C at 1013 hPa
<u>Point of flame:</u>	Not defined.
<u>Ignition temperature:</u>	Not applicable.
<u>Self ignition:</u>	Not applicable.
<u>Vapour pressure at 20° C:</u>	23 hPa.
<u>Density at 20° C:</u>	1,05 g/cm ³

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<u>Relative vapour density</u> at 20° C, conceing in air:	<1
<u>Solubility in/</u> <u>Miscibility in water:</u>	Miscible.
<u>pH value at 20° C:</u>	Ca. 5 (delivery form)
<u>Dynamic Viscosity:</u>	Max. 100 mPa s at 20° C
<u>Other information:</u>	None
The data of the safety relevant data refer to the liquid dispersion of an acrylpolymeric.	

10. Stability and reactivity

<u>Conditions to avoid:</u> Heat.
<u>Substances to avoid:</u> No dangerous reactions expected if used according to directions.
<u>Hazardous decomposition products:</u> In case of burning look at No. 5

11. Toxicological information

<u>Acute oral Toxicity:</u> No toxic data available for this product. For products of similar composition a LD50 (oral, Rat) of above 5000 mg/kg was found.
<u>Subacute unto chronic toxicity:</u> Experience with human: no data existing
<u>Kinetic of the toxic reaction:</u> According the new Material Safety Data Sheet according to REACH, specifications about kinetic of the toxic reaction, metabolism of the substance and allocation of the substance in the human body must be mentioned at this place. Data for this is not available.
<u>Experience of the practice:</u> No data existing
<u>Further detail:</u> The product is to be handled with the usual care when handling chemicals.

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12. Ecological information

Ecotoxic effects:

Fish toxicity: no data existing
Water organism: no data existing
Daphnia toxicity: no data existing
Mobility: no data existing

Further details to ecology:

Do not allow product to reach ground water or sewage system.

Bioakkumulation potential:

No data available

Effect of the determination of the PTB- and vPvB-Report:

Endocrine disruption potential. If the material causes hormonal effects or prevents them is unknown.

13. Disposal considerations

Product:

Accordingly dispose of considering the regulations of the local authority

Packaging:

Packaging material which is not contaminated can be recycled.

Waste code according to AVV:

18 01 07

Disposal of the obstetrical, diagnostics, attendance or prevention of sickness at human – chemicals excepting this ones which belong to 18 01 06.

14. Transport information

Further details:

Not subject to regulation (midget amounts).

15. Regulatory information

Labelling according EU guidelines:

The product is not to be labelled.

Hazardous components requiring declaration / special labelling:

None.

Safety Assessments:

Safety Assessments for substances in this preparation were not executed.

Limits for employment:

Employment limits for teenager (Germany: § 22 JArbSchG) have to be followed

National Regulations

Water hazard class:

1 slightly water hazard (VwVwS, Annex 4)

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Status of registration

EINECS/ELINCS:

listed

At the moment there exist neither registrations to title 7 either limits to title 8 for the product.

16. Other information

Further applicable EG Guidelines:

Guideline for preparation (1999/45/EC), at last changed by the guideline 2006/8/EC.

Substance Guideline (67/548/EWG), at last changed by the guideline 2006/121 EC.

REACH-Guideline (EC) No. 1907/2006

Manufacturer's suggested application restriction:

For dental use only

R-phrases that refer to section 3:

R 22 Harmful if swallowed

R 25-32-36/38 Toxic if swallowed. Contact with acids liberates very toxic gas. Irritating to eyes and skin.

If these product will be used as a component of an other product, this information is not applicable.

Additional Information:

Origin: ¹ <http://www.baua.de>

² <http://www.arbeitsicherheit.de>

Some of the information presented and conclusions drawn herein are from sources other than direct test-data on the product itself.

The contents and format of this MSDS are in accordance with EEC Commission (EC) No. 1907 / 2006.

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