

## Safety Data Sheet (EC) No. 1907/2006

### 1. Product- and Company Identification

<u>Trade name:</u>	DC Dublier-Silicone (Component B) & DC Dublier-Silicone Quick (Component B) Art.-No. 714402, 714403, 714404, 714405
<u>Manufacturer:</u>	DC Dental Central Großhandelsges.mBH Carl-Zeiss-Str.2 <b>D-22946 Trittau, Germany</b>
<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
<u>Description:</u> Polydimethylsiloxane with functional groups + auxiliaries for addition cross-linking.

### 3. Hazards identification

<u>Further hazards to man and environment:</u> Danger of oxyhydrogen gas formation with water, alcohols, acids, metallic salts, amines and alkalis.
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### 4. First aid measures

<u>General Information:</u>	None.
<u>After inhalation:</u>	No special measures required.
<u>After skin contact:</u>	Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap
<u>After eye contact:</u>	Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.
<u>After ingestion:</u>	No special measures required. In cases of sickness seek medical advice and show label if possible.

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### 5. Fire-fighting measures

Suitable extinguishing agents:

Alcohol-resistant foam, carbon-dioxide, sand. Hydrogen gas can become trapped under foam blankets, so sources of ignition must be eliminated during the clean-up and recovery process.

Extinguishing media to avoid:

Water, extinguishing powder, halones.

Special protective equipment for fire fighting:

None.

Protective equipment:

Use respiratory protection independent of recirculated air.

### 6. Accidental release measures

Person-related safety precautions:

Secure the area. Wear personal protection equipment (see section 8). If material is released indicate risk of slipping.

Measures for environmental protection:

Prevent material from entering sewers or surface waters, drains or sewer and open soil. Contain any fluid that runs out using suitable material (e.g. earth). If safe to do so, stop the leak at its source.

Methods for cleaning up::

For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. Use only air driven or properly rated electrical equipment. Use vented recovery containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

Further information:

Eliminate all sources of ignition. Material designated for disposal must be segregated from incompatible substances or materials specified in section 10. Do not blend contaminated material with uncontaminated material. Observe notes under section 7.

### 7. Handling and storage

**Handling:**

Information for safe handling:

Use caution when opening any bulging container. Wear all appropriate protective equipment. Work in open area away from other materials, operations, and sources of ignition. Open slowly to allow a gradual release of pressure. Ensure adequate ventilation. Keep container closed when not in use. Keep away from incompatible substances in accordance with section 10. Where possible, inert process equipment and blanket vessels, tanks and containers with nitrogen to reduce the available oxygen level.

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### Instructions on fire and explosion protection:

Product can release hydrogen. In partly emptied containers formation of explosive mixtures is possible. Keep away from sources of ignition and do not smoke. Keep away from open flames, heat and sparks. Take precautionary measures against electrostatic charging.

### **Storage:**

#### Requirements to be met by storerooms and receptacles:

Do not store in glass container.

#### Information about storage of incompatible materials:

Do not store with: basic substances (e.g. alkalis, ammonia, amines) oxidizing agents, strong acids.

#### General information for storage:

Protect against moisture. Store container in well ventilated and in dry and cool place.

## 8. Exposure controls/personal protection

### Exposure limits:

Maximum airborne concentrations at the workplace: not applicable.

### Exposure to the environment limited and controlled:

Prevent material from introduction into surface water and soil.

### Eye protection:

Recommendation: Protective goggles.

### Respiratory protection:

Not required.

### Hand protection:

Recommendation: Protective gloves made of butyl rubber, protective gloves coated with neoprene, PVC gloves. Gloves suitable for up to 60 minutes' use.

### General protective and hygienic measures:

Do not drink or eat when handling. Wash hands at the end of work and before eating.

## 9. Physical and chemical properties

<u>Form:</u>	Liquid.
<u>Colour:</u>	Neon pink
<u>Odour:</u>	Odourless
<u>Flash point:</u>	>250° C.
<u>Ignition temperature:</u>	>400° C.
<u>Explosion limits:</u>	Not applicable.
<u>Density at 20° C:</u>	1,1 g/cm <sup>3</sup> (DIN 51757)
<u>Vapour pressure:</u>	Not applicable.
<u>Solubility in water:</u>	Virtually insoluble

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Dynamic viscosity: 2500 mPa s at 23° C (Brookfield)

pH value: Approx. 7

Other information:

According to previous experience spontaneous combustion temperature for polymere siloxane with SiH compounds is above 240° C (464° F). On a catalytically active surface ignition may occur at much lower temperature. This applies to porous or fibrous substances including those with alkaline surfaces, such as thermal insulation and cementaceous insulating materials.

Explosion limits for released hydrogen: 4 – 75,6 % (V).

Re 9,2 pH Value: Product displays neutral reaction.

### 10. Stability and reactivity

General information:

Stable under normal conditions of use. In contact with incompatible substances this material may quickly generate a large volume of flammable hydrogen gas.

Conditions to avoid:

Moisture. Heat, open flames, and other sources of ignition. Contact with contaminated piping or vessels or with corroded or rusty containers can increase the rate of hydrogen formation. Observe information in section 7.

Materials to avoid:

Reacts violently with: Acids, basic substances (e.g. alkalis, ammonia, amines).

Reacts with: Alcohols, water, moisture, oxidizing agents, catalyst.

Reaction causes the formation of hydrogen.

Hazardous decomposition products:

Releases flammable Hydrogen Gas. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150°C (302°F) through oxidation.

### 11. Toxicological information

General information:

According to present experience, the material is neither mutagenic, cancerogenic nor teratogenic. The toxicology results listed below are based on tests with a similar material.

Acute toxicity (LD<sub>50</sub>/LC<sub>50</sub>-values relevant to classification):

Oral: >5000 mg/kg (rat) (Source: literature)

Dermal: >2008 mg/kg (rat, limit test) (Source: test report)

Primary irritation:

Skin: not irritating(rabbit, source: test report)

Eye: mildly irritating(rabbit, source: test report)

Sensitization:

To skin: not sensitizing(Test method: Magnusson-Kligmann, Guinea pig, source: test report)

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Reference points for mutagenic (carcinogenic) potential:

Bacterial Reverse Mutation Test: not mutagenic (source: test report)

Experience with man:

Human patch test: Product displays good compatibility with the skin.

### 12. Ecological information

**Ecotoxicity**

No expected damaging effects to water organisms.

Effects ins sewage treatment plants (bacteria toxicity: respiration-/ reproduction inhibition):

According to current knowledge adverse effects on water purification plants are not expected.

**Mobility**

Forms thin oil film on surface of water. Absorbed by floating particles. Separation by sedimentation.

**Persistence and Degradability**

Biodegradation / further information:

Biologically not degradable. Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

Further information:

Elimination by absorption in activated sludge.

**Bio-accumulation potential**

Bio-accumulation is not expected to occur.

**Other harmful effects**

None.

**Further ecological information**

General information:

No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

### 13. Disposal considerations

**Product**

Recommendation:

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations. Material designated for disposal must be segregated from incompatible substances or materials specified in section 10. Wastes of this material should not be mixed with other wastes. Provide measures such as vented bungs to ensure pressure relief in the waste containers.

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### Uncleaned packaging

Recommendation:

Containers may contain hazardous quantities of hydrogen gas. Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials. Uncleaned packaging should be treated with the same precautions as the material. Containers should be completely emptied before recycling as specified in government regulations.

### 14. Transport information

Product is not classified for any mode of transportation.

Further transport information:

Postal and courier service: German postal dispatch: Permitted.

### 15. Regulatory information

Warning label (EU):

No labelling required in accordance with hazardous substance ordinance.

### 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.