

Safety Data Sheet (EC) No. 1907/2006

1. Product- and Company Identification

<u>Trade name:</u>	DC Decetol 2,5
<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:					
Description: Mixture of the substances listed below with nonhazardous additions.					
Hazardous Ingredients:					
<u>Description:</u>	<u>CAS-Nr:</u>	<u>EINECS:</u>	<u>Classification:</u>	<u>R-phrases</u>	<u>Percentage</u>
Propan-2-ol Index No.: 603-117-00-0	67-63-0	200-661-7	Xi, F	R 11, R 36	2,5-10%
N,N'''-1,6-Hexanediybis(N'-cyanoguanidine), hexamethylenediamine polymer, hydrochloride	27083-27-8		Xn, Xi, N	R 22, R 38-41, R 43, R 50/53	2,5-10
	Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Skin Sens. 1, H317				

3. Hazards identification

<u>Hazard-determining components of labelling:</u>	N,N'''-1,6-Hexanediybis(N'-cyanoguanidine), hexamethylenediamine polymer, hydrochloride
<u>Risk phrases:</u>	R 43 May cause sensitisation by skin contact. R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<u>Safety phrases:</u>	S ₂ Keep out of the reach of children. S ₂₄ Avoid contact with skin. S ₃₇ Wear suitable gloves. S ₄₆ If swallowed, seek medical advice immediately and show this container or label. S ₆₁ Avoid release to the environment. Refer to special instructions/safety data sheets.

Safety Data Sheet (EC) No. 1907/2006

Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

4. First aid measures

General information: Immediately remove any clothing contaminated by the product.

After inhalation: Supply fresh air; consult doctor in case of symptoms.

After skin contact: Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing: Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.

5. Fire-fighting measures

Suitable extinguishing agents:

Carbon dioxide (CO₂), extinguishing powder or water spray/fog. Fight larger fires with water, spray/fog or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents:

None.

Special hazards arising from the substance or mixture:

Nitrogen oxides (NO_x), Carbon monoxide (CO) and Carbon dioxide (CO₂)

Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus.

Additional information:

Collect contaminated fire fighting water separately. It must not enter drains.

Safety Data Sheet (EC) No. 1907/2006

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away. Avoid contact with skin and eyes.

Environmental precautions:

Do not allow to enter drainage system, surface or ground water. Inform respective authorities in case product reaches water or sewage system.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

Reference to other sections:

See Section 8 for information on personal protection equipment.

7. Handling and storage

Handling:

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Avoid contact with skin and eyes. Make sure that all applicable workplace limits are observed.

Information about protection against explosions and fires:

No special measures required.

Storage:

Requirements to be met by storerooms and containers:

Observe all local and national regulations for storage of water polluting products.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep container tightly sealed. Protect from heat and direct sunlight. Protect from frost.

8. Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

Components with critical values that require monitoring at the workplace:

67-63-0 Propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm

Long-term value: 999 mg/m³, 400 ppm

Carc (if more than 0.1% of buta-1.3-diene)

Additional information:

The lists valid during the making were used as basis.

Eye protection: Safety glasses

Safety Data Sheet (EC) No. 1907/2006

<u>Respiratory protection:</u>	If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
<u>Hand protection:</u>	<p>Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.</p> <p>Material of gloves</p> <p>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.</p> <p>Penetration time of glove material</p> <p>The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p>
<u>Body protection:</u>	Protective work clothing
<u>General protective and hygienic measures:</u>	<p>Instantly remove any contaminated garments. Avoid contact with the eyes and skin.</p> <p>Wash hands during breaks and at the end of the work.</p>

9. Physical and chemical properties

<u>Form:</u>	Liquid
<u>Colour:</u>	according to product specification
<u>Odour:</u>	Characteristic
<u>Melting point:</u>	not determined
<u>Boiling Point</u>	not determined
<u>Flash point:</u>	Not applicable
<u>Self-igniting:</u>	Product is not self-igniting.
<u>Explosion limits:</u>	Product is not explosive.
<u>Density at 20° C:</u>	not determined
<u>Solubility in water:</u>	fully miscible
<u>pH-value at 20°C:</u>	no data available
<u>Viscosity:</u>	dynamic: no data available kinematic: no data available

Safety Data Sheet (EC) No. 1907/2006

10. Stability and reactivity

<u>Thermal decomposition / conditions to be avoided:</u>	No decomposition if used according to specifications.
<u>Possibility of hazardous reactions:</u>	No dangerous reactions known.
<u>Incompatible materials:</u>	Strong oxidizing agents.
<u>Hazardous decomposition products:</u>	Nitrogen oxides (NO _x), Carbon monoxide (CO) and Carbon dioxide (CO ₂)

11. Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

27083-27-8 N,N''-1,6-Hexanediylbis(N'-cyanoguanidine), hexamethylenediamine polymer, hydrochloride

Oral LD50 > 2000 mg/kg (rat)

After skin contact: Slightly irritating.

After eye contact: Weak irritating effect.

Sensitization: Sensitization possible by skin contact.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EC; Classification Guidelines for Preparations as issued in the latest version: Sensitizing

12. Ecological information *

Toxicity

Aquatic toxicity:

27083-27-8 N,N''-1,6-Hexanediylbis(N'-cyanoguanidine), hexamethylenediamine polymer, Hydrochloride

EC50/48 h 0.18 0.45 mg/l (water flea (daphnia magna))

LC50/96 h 0.65 0.9 mg/l (bluegill (Iepomis macrochirus))

< 1 mg/l (rainbow trout (oncorhynchus mykiss))

Safety Data Sheet (EC) No. 1907/2006

Additional ecological information:

General notes:

Water danger class 3 (Self-assessment): extremely hazardous for water.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

13. Disposal considerations

Waste treatment methods:

Recommendation:

Disposal must be made according to official regulations. Hand over to disposers of hazardous waste.

Waste disposal key number:

According to local/national regulations.

European waste catalogue:

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

14. Transport information *

Land transport ADR/RID (cross-border):

ADR/RID Class:	9 (M6) Miscellaneous dangerous substances and articles.
Kemler Number:	90
UN-Number:	3082
Packaging group:	III
Label:	9
Special marking:	Symbol (fish and tree)
UN proper shipping name:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polymeric biguanide hydrochloride)
Excepted quantities (EQ):	E1
Limited quantities (LQ):	LQ7
Transport category:	3
Tunnel restriction code:	E

Maritime transport IMDG-Code:

IMDG Class:	9
UN Number:	3082
Label:	9
Packaging group:	III
EMS Number:	F-A,S-F
Marine pollutant:	Symbol (fish and tree)

Safety Data Sheet (EC) No. 1907/2006

Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Polymeric biguanide hydrochloride)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 9

UN/ID Number: 3082

Label: 9

Special marking: Symbol (fish and tree)

Packaging group: III

Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Polymeric biguanide hydrochloride)

Special precautions for user Warning: Miscellaneous dangerous substances and articles.

15. Regulatory information *

Labelling according international regulations GefStoffV/EG:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Identification-letter and hazard denotation of the product:

Xi Irritant

N Dangerous for the environment

Hazard-determining components of labelling:

N,N''-1,6-Hexanediybis(N'-cyanoguanidine), hexamethylenediamine polymer, hydrochloride

R-Phrases:

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-Phrases:

S2 Keep out of the reach of children.

S24 Avoid contact with skin.

S37 Wear suitable gloves.

S46 If swallowed, seek medical advice immediately and show this container or label.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Safety Data Sheet (EC) No. 1907/2006

National regulations

Information about limitation of use:

Employment restrictions concerning young persons must be observed

Decree to be applied in case of technical fault:

Quantity limits according to "EC Seveso directive" should be observed.

Water hazard class:

Water danger class 3 (Self-assessment): extremely hazardous for water.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other information *

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Reasons for changes:

Changes in classification and labeling

Relevant phrases:

The(se) R- resp. H-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation.

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R11 Highly flammable.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

* Data compared to the previous version altered.