

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

TempoCem, TempoCem Soft

Print date: 04.03.2011

MSDS: 4510

Page 1 of 5

1. Identification of the substance/preparation and of the company/undertaking**Identification of the substance or preparation**

TempoCem, TempoCem Soft

Company/undertaking identification

Company name:	DMG Chemisch-Pharmazeutische Fabrik GmbH		
Street:	Elbgaustraße 248		
Place:	D-22547 Hamburg		
Telephone:	+49. (0) 40. 84006-0	Telefax:	+49. (0) 40. 84006-222
Internet:	www.dmg-dental.com	e-mail:	info@dmg-dental.com

2. Hazards identification**Classification**

Indications of danger : Dangerous for the environment

R-phrases:

Irritating to skin.

May cause sensitization by skin contact.

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

3. Composition/information on ingredients**Chemical characterization (Mixture)**

chemical characterization (preparation): ZnO, EUGENOL

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
215-222-5	1314-13-2	zinc oxide	65 - 75 %	N R50-53
	97-53-0	eugenol	< 10 %	Xi R38-43

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures**After inhalation**

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Immediately get medical attention.

5. Fire-fighting measures**Suitable extinguishing media**Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO₂).**Extinguishing media which must not be used for safety reasons**

High power water jet.

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

TempoCem, TempoCem Soft

Print date: 04.03.2011

MSDS: 4510

Page 2 of 5

6. Accidental release measures**Personal precautions**

Provide adequate ventilation. Wear suitable protective clothing.

Environmental precautions

Do not empty into drains or the aquatic environment.

Methods for cleaning up/taking up

Collect mechanically.

7. Handling and storage**Handling****Advice on safe handling**

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

Storage**Requirements for storage rooms and vessels**Keep container tightly closed in a cool, well-ventilated place.
Store only in original container.**8. Exposure controls/personal protection****Exposure limit values****Exposure controls****Occupational exposure controls**

Ensure adequate ventilation of the storage area.

Protective and hygiene measures

When using do not eat or drink.

Respiratory protection

The following must be prevented: inhalation.

Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

Eye protection

Tightly sealed safety glasses.

9. Physical and chemical properties**General information**

Physical state:	Paste
Colour:	brown / white
Odour:	eugenol

Important health, safety and environmental information

pH-Value:	not applicable	Test method
-----------	----------------	-------------

Changes in the physical state

Boiling point:	> 200 °C
point of decomposition:	> 130 °C
Flash point:	> 110 °C

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

TempoCem, TempoCem Soft

Print date: 04.03.2011

MSDS: 4510

Page 3 of 5

Vapour pressure: < 1 hPa
(at 20 °C)
Density: 2,3 g/cm³
Water solubility: slightly soluble
Vapour density: > 1

Other information

Ignition temperature: > 300 °C

10. Stability and reactivity**Conditions to avoid**

heat.
Decomposition takes place from temperatures above: 130 °C

Materials to avoid

Keep in a cool place away from acids.

11. Toxicological information**Acute toxicity**

LD50: Rat. 250 mg/kg

Corrosive and irritant effects

Frequently or prolonged contact with skin may cause dermal irritation.
Irritant effect on the eye: Frequently or prolonged contact with skin may cause dermal irritation.

12. Ecological information**Persistence and degradability**

Preparation not tested.

Further information

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

13. Disposal considerations**Advice on disposal**

Carry out a burning of hazardous waste according to official regulations.

Waste disposal number of waste from residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances
Classified as hazardous waste.

14. Transport information**Land transport (ADR/RID)**

UN number: 3077
ADR/RID class: 9
Classification code: M7
Warning plate
Hazard-no.: 90
Hazard label: 9

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

TempoCem, TempoCem Soft

Print date: 04.03.2011

MSDS: 4510

Page 4 of 5

ADR/RID packing group: III

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, ZnO)

Other applicable information (land transport)

Special provisions: 274 335 601

E1

: 3

: E

Inland waterways transport

UN number: 3077

ADNR class:

9

Classification code: M7

Hazard label: 9

Packing group: III

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, ZnO)

Other applicable information (inland waterways transport)

Special provisions: 274 601

Marine transport

UN number: 3077

IMDG code: 9

Marine pollutant: •

Hazard label: 9

IMDG packing group: III

EmS: F-A, S-F

Limited quantity: 5 kg

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, ZnO)

Other applicable information (marine transport)

Special provisions: 274, 909, 944

Air transport

UN/ID number: 3077

ICAO/IATA-DGR: 9

Hazard label: 9

ICAO packing group: III

Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger: 911

IATA-max. quantity - Passenger: 400 kg

IATA-packing instructions - Cargo: 911

IATA-max. quantity - Cargo: 400 kg

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, ZnO)

Other applicable information (air transport)

E1

Safety Data Sheet

according to Regulation (EU) No. 1907/2006

TempoCem, TempoCem Soft

Print date: 04.03.2011

MSDS: 4510

Page 5 of 5

: Y911
400 kg**15. Regulatory information****Labelling**

Danger symbols: N - Dangerous for the environment

Hazardous components which must be listed on the label

Zinc Oxide , ZnO

R phrases

- 38 Irritating to skin.
43 May cause sensitization by skin contact.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

- 37 Wear suitable gloves.
61 Avoid release to the environment. Refer to special instructions / Safety data sheets.
24/25 Avoid contact with skin and eyes.

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

16. Other information**Full text of R-phrases referred to under sections 2 and 3**

- 38 Irritating to skin.
43 May cause sensitization by skin contact.
50 Very toxic to aquatic organisms.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53 May cause long-term adverse effects in the aquatic environment.

Further Information

-

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)