## **SAFETY DATA SHEETS**

## This SDS packet was issued with item:

073242757

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

073242658 073242773

according to Regulation (EU) No. 1907/2006

## TempoCem, TempoCem Soft

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## 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.

according to Regulation (EU) No. 1907/2006

## TempoCem, TempoCem Soft

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#### 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

Test method

pH-Value: not applicable

Changes in the physical state

Boiling point:  $> 200 \, ^{\circ}\mathrm{C}$  point of decomposition:  $> 130 \, ^{\circ}\mathrm{C}$  Flash point:  $> 110 \, ^{\circ}\mathrm{C}$ 

according to Regulation (EU) No. 1907/2006

TempoCem,	TempoCem Soft
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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.

Decompostion 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 harzardous 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

according to Regulation (EU) No. 1907/2006

## TempoCem, TempoCem Soft

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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:911IATA-max. quantity - Passenger:400 kgIATA-packing instructions - Cargo:911IATA-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

according to Regulation (EU) No. 1907/2006

## TempoCem, TempoCem Soft

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: 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.

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.

Very toxic to aquatic organisms.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

May cause long-term adverse effects in the aquatic environment.

#### **Further Information**

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

## TempoCem, TempoCem Soft

Product code: 110300\_110303\_212129 (4510\_GHS)

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

TempoCem Automix, TempoCem Soft, TempoCem Smartmix

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.3. Details of the supplier of the safety data sheet

Company Name: DMG AMERICA LLC
Address: 242 South Dean Street
City, State, Zip Code: Englewood, NJ. 07631

Telephone: (800) 662-6383

email address: Info@dmg-america.com
Website: www.dmg-america.com

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Indications of danger: N - Dangerous for the environment

R phrases: Irritating to skin.

May cause sensitisation by skin contact.

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

#### **GHS** classification

Hazard categories:

Hazardous to the aquatic environment: Aquatic Acute 1 Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements: Causes skin irritation.

May cause an allergic skin reaction.

Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Signal word: Warning Pictograms: GHS09



#### **Hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Chemical characterization**

chemical characterization (preparation): ZnO, EUGENOL

## TempoCem, TempoCem Soft

Product code: 110300\_110303\_212129 (4510\_GHS)

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#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
215-222-5	zinc oxide	65 - 75 %
1314-13-2	N - Dangerous for the environment R50-53	
030-013-00-7	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	
	eugenol	< 10 %
97-53-0	Xi - Irritant R38-43	

Full text of R and H phrases: see Section 16.

## **SECTION 4: First aid measures**

#### 4.1. Description of 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.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### 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.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable protective clothing.

## 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

#### 6.3. Methods and material for containment and cleaning up

Collect mechanically.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

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

## 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

## TempoCem, TempoCem Soft

Product code: 110300\_110303\_212129 (4510\_GHS)

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Store only in original container.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.2. 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.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

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

Test method

pH-Value:	not applicable

Changes in the physical state

Boiling point: > 200 °C
point of decomposition: > 130 °C
Flash point: > 110 °C
Ignition temperature: > 300 °C
Vapour pressure: < 1 hPa
(at 20 °C)

Density: 2,3 g/cm³
Water solubility: slightly soluble
Vapour density: > 1

## **SECTION 10: Stability and reactivity**

#### 10.4. Conditions to avoid

heat.

Decompostion takes place from temperatures above: 130 °C

## 10.5. Incompatible materials

Keep in a cool place away from acids.

## **SECTION 11: Toxicological information**

## TempoCem, TempoCem Soft

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#### 11.1. Information on toxicological effects

**Acute toxicity** 

LD50: Rat. 250 mg/kg

Irritation and corrosivity

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.

## **SECTION 12: Ecological information**

#### 12.2. Persistence and degradability

Preparation not tested.

**Further information** 

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

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Advice on disposal

Carry out a burning of harzardous 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.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

**14.1. UN number:** 307

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc

oxide, ZnO)

9

14.3. Transport hazard class(es):

14.4. Packing group:

Hazard label: 9



Classification code: M7

Special Provisions: 274 335 601
Limited quantity: 5 kg
Transport category: 3
Hazard No: 90
Tunnel restriction code: E

Other applicable information (land transport)

E1

Marine transport (IMDG)

**14.1. UN number:** 3077

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc

oxide, ZnO)

## TempoCem, TempoCem Soft

Product code: 110300\_110303\_212129 (4510\_GHS)

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14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9



Special Provisions: 274, 335
Limited quantity: 5 kg
EmS: F-A, S-F

Other applicable information (marine transport)

E1

Air transport (ICAO)

**14.1. UN number:** 3077

14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc

oxide, ZnO)

14.3. Transport hazard class(es):914.4. Packing group:IIIHazard label:9



Special Provisions: A97 A158 A179

Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger:956IATA-max. quantity - Passenger:400 kgIATA-packing instructions - Cargo:956IATA-max. quantity - Cargo:400 kg

Other applicable information (air transport)

E1 : Y956

14.5. Environmental hazards

Dangerous for the environment: yes



## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

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

## **SECTION 16: Other information**

## Full text of R phrases referred to under Sections 2 and 3

38 Irritating to skin.

43 May cause sensitisation by skin contact.

Very toxic to aquatic organisms.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

## TempoCem, TempoCem Soft

Product code: 110300\_110303\_212129 (4510\_GHS) Page 6 of 6

May cause long-term adverse effects in the aquatic environment.

#### Full text of H statements referred to under Sections 2 and 3

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

## **Further Information**

-

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