# **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

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.

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

#### <u>Handling</u>

#### 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 °C
point of decomposition:	> 130 °C
Flash point:	> 110 °C

according to Regulation (EU) No. 1907/2006

TempoCem, TempoCem Soft		
Print date: 04.03.2011	MSDS: 4510	Page 3 of 5
Vapour pressure: (at 20 °C)	< 1 hPa	
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

Revision no.: 1,03

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 HAZ	ARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, ZnO)	
Other applicable information (land tran Special provisions: 274 335 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 HAZ	ARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, ZnO)	
Other applicable information (inland w 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	ARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, ZnO)	
Other applicable information (marine t Special provisions: 274, 909	ransport)	
	J, J44	
	2077	
UN/ID number: ICAO/IATA-DGR:	3077	
Hazard label:	9 9	
ICAO packing group:	9 	
Limited quantity Passenger:	30 kg G	
	-	
IATA-packing instructions - Passenger:	911	
IATA-max. quantity - Passenger:	400 kg	
IATA-packing instructions - Cargo:	911 100 km	
IATA-max. quantity - Cargo:	400 kg	
Description of the goods ENVIRONMENTALLY HAZ	ARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, ZnO)	
Other applicable information (air trans E1	port)	
	GB - EN	Revision date: 03.03.2011

according to Regulation (EU) No. 1907/2006

TempoCem, TempoCem Soft		
Print date: 04.03.201	1 MSDS: 4510	Page 5 of
: Y9		
400	kg	
5. Regulatory inf	ormation	
abelling		
Danger symbols:	N - Dangerous for the environment	
	oonents which must be listed on the label 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.	
lational regulatory		
Water contaminat	ting class (D): 3 - highly water contaminating	
6. Other informat	ion	
Full text of R-ph	ases 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	
53	environment.	
55	May cause long-term adverse effects in the aquatic environment.	

(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: 11030, 110303, 212129 (4510\_GHS)

Page 1 of 6

# 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

# 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**

P280Wear protective gloves/protective clothing/eye protection/face protection.P273Avoid 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: 11030, 110303, 212129 (4510\_GHS)

Page 2 of 6

# 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: 11030, 110303, 212129 (4510\_GHS)

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

<ol> <li>Information on basic physical and che</li> </ol>	mical 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: (at 20 °C)	< 1 hPa	
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**

Revision No. 1,01

Revision date: 01-31-2018

Page 3 of 6

# TempoCem, TempoCem Soft

Product code: 11030, 110303, 212129 (4510\_GHS)

Page 4 of 6

### 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)

<u>14.1. UN number:</u>	3077
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide, ZnO)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
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 trans E1	port)
Marine transport (IMDG)	
<u>14.1. UN number:</u>	3077
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide, ZnO)

	TempoCem, Temp	oCem Soft	
Pro	duct code: 11030, 110303	s, 212129 (4510_GHS)	Page 5 of 6
14.3. Transport hazard class(es):	9		
14.4. Packing group:	III		
Hazard label:	9		
Special Provisions:	274, 335		
Limited quantity:	5 kg		
EmS:	F-A, S-F		
Other applicable information (marine tra E1	insport)		
Air transport (ICAO)			
<u>14.1. UN number:</u>	3077		
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide, ZnO)		
14.3. Transport hazard class(es):	9		
14.4. Packing group:	III		
Hazard label:	9		
	9		
Special Provisions:	A97 A158 A179		
Limited quantity Passenger:	30 kg G		
IATA-packing instructions - Passenger:	-	56 20 km	
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:		00 kg 56	
IATA-max. quantity - Cargo:		00 kg	
Other applicable information (air transp E1	ort)		
: Y956			
14.5. Environmental hazards	$\mathbf{\wedge}$		
Dangerous for the environment:	yes		
SECTION 15: Regulatory information	<b>▼</b>		
15.1. Safety, health and environmental regu	lations/legislation specif	fic 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.
50	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: 11030, 110303, 212129 (4510_GHS)	Page 6 of
53	May cause long-term adverse effects in the aquatic environment.	
Full text of H s	tatements 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 Inform	ation	

The data for the hazardous ingredients were taken respectively from the last version Date 04/13/2016 of the sub-contractor's safety data sheet.