DETAX GmbH & Co. KG



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# tempofit® finish

Revision date: 31.10.2019 Product code: 10175 Page 1 of 10

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

### 1.1. Product identifier

tempofit® finish

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

### Use of the substance/mixture

Ligth curing sealing lacquer for use in dentistry.

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

Manufacturer

Company name: DETAX GmbH & Co. KG Street: Carl-Zeiss-Strasse Place: D-76275 Ettlingen Telephone:

+49 7243/510-0 Telefax: +49 7243/510-100

e-mail: post@detax.de Internet: www.detax.de Responsible Department: Emergency number:

+49 7243/510-0

This number is only obtainable during office hours (Monday - Thursday 8.00 a.m.

- 5.00 p.m., Friday 8.00 a.m. - 4.00 p.m.)

Importer / Distributer

Company name: Ivoclar Vivadent Pty Ltd

1-5 Overseas Drive Noble Park North VIC 3174 Place:

Telephone: +61 3 9795 9599 Telefax: Fax: +61 3 9795 9645

e-mail: info@ivoclarvivadent.com

13 11 26 1.4. Emergency telephone

number: Poisons Hotline (24 hours / 7 days)

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

# 2.1. Classification of the substance or mixture

# Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2 Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1A

Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Highly flammable liquid and vapour.

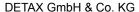
Causes skin irritation.

Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

### Regulation (EC) No. 1272/2008





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## Hazard components for labelling

"methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA"

acrylic acid derivates

vinylester resin

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Signal word: Danger

Pictograms:





## **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P235 Keep cool.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/ container in accordance with local and national regulations.

## Additional advice on labelling

According to Regulation (EC) 1272/2008, art.1 No. 5 (d) this product as a medical product must not be labelled!

# 2.3. Other hazards

No information available.

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

## 3.2. Mixtures

## **Chemical characterization**

Mixture of acrylic/ methacrylic resins with auxilliary matters.



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### **Hazardous components**

CAS No	Chemical name					
	EC No	Index No	REACH No			
	GHS Classification					
80-62-6	"methyl 2-methylprop-2-enoate; m	ethyl 2-methylpropenoate	methyl methacrylate, MMA"	10 - 50 %		
	201-297-1	607-035-00-6				
	Flam. Liq. 2, Skin Irrit. 2, Skin Sen	s. 1, STOT SE 3; H225 H	315 H317 H335			
	acrylic acid derivates					
	Eye Irrit. 2, Skin Sens. 1A, Aquation					
	aliphatic polyestertriurethane triac	rylate		1 - 20 %		
	Skin Irrit. 2, Eye Irrit. 2; H315 H31	<u> </u> 9				
55818-57-0	vinylester resin			1 - < 5 %		
			01-2119490020-53			
	Skin Sens. 1; H317					
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)	0,1 - 5 %				
	423-340-5	015-189-00-5	01-2119489401-38			
	Skin Sens. 1, Aquatic Chronic 4; H317 H413					

Full text of H and EUH statements: see section 16.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

# After inhalation

Provide fresh air. Medical treatment necessary.

# After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

# After ingestion

Rinse mouth immediately and drink plenty of water.

Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered flow out of the vomit (danger of suffocation).

## 4.2. Most important symptoms and effects, both acute and delayed

No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.





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### 5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air.

# 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

# Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

## 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

# Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Vapours can form explosive mixtures with air.

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

## Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

# Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

### Further information on storage conditions

Keep away from all kind of ligth. An inert gas blanket should not be applied, because the stability of the product depends on teh presence of oxygen (air).

# 7.3. Specific end use(s)

Lacquer for sealing of dental restorations like crowns and bridges.

For use by trained specialist staff.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters



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### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

### 8.2. Exposure controls

# Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

### Eye/face protection

Suitable eye protection: goggles.

# Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable are gloves of the following material: Butyl caoutchouc (butyl rubber)

# Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

## Respiratory protection

In case of inadequate ventilation wear respiratory protection.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: liauid: Colour: light yellow Odour: faintly like esters

Test method

12 vol. %

pH-Value: not determined

Changes in the physical state

Melting point: not determined

92 °C DIN 51356 Initial boiling point and boiling range: Flash point: 12 °C DIN 51755

Sustaining combustion: No data available

**Flammability** 

Solid: not applicable Gas: not applicable 2 vol. % Lower explosion limits:

Upper explosion limits: Ignition temperature: >400 °C DIN 51794

**Auto-ignition temperature** 

Solid: not applicable

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Gas: not applicable

Decomposition temperature: >100 °C

**Oxidizing properties** 

Not oxidizing.

Vapour pressure: 40 hPa

(at 20 °C)

Vapour pressure: 160 hPa

(at 50 °C)

Density (at 20 °C): 1,07 g/cm³ DIN 51757

Water solubility: 16 g/L

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Highly flammable.

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Reacts with: oxidising agents, radicals forming substances or heavy metal ions.

## 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Ultra-violet ligth and dayligth initiate polymerisation of the product. Therefore keep only in tigthly closed containers away from any sources of ligth. Keep in a refrigerator at 2°C - 12°C / 36°F - 54 °F.

### 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

In case of fire, acrid acrylic fumes may occur.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

# **Acute toxicity**

Based on available data, the classification criteria are not met.



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CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
80-62-6	"methyl 2-methylprop-2-e	I 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA"							
	oral	LD50 mg/kg	7870	Rat					
	dermal	LD50 mg/kg	>5000	Rabbit					
	inhalation (4 h) vapour	LC50	78 mg/l	Rat					
	acrylic acid derivates								
	oral	LD50 mg/kg	2000	Rat	OECD 423				
	dermal	LD50 mg/kg	2000	Rabbit	OECD 402				
162881-26-7	phenyl bis(2,4,6-trimethy	lbenzoyl)-ph	nosphine oxic	le					
	oral	LD50 mg/kg	>2000	Rat	OECD 401				
	dermal	LD50 mg/kg	>2000	Rat	OECD 402				

### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

# Sensitising effects

May cause an allergic skin reaction. ("methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA"; acrylic acid derivates; vinylester resin; phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide)

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause respiratory irritation. ("methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA")

## STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

## Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

# **SECTION 12: Ecological information**

# 12.1. Toxicity

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



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d] Species		Source	Method	
80-62-6	"methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate, MMA"							
	Acute fish toxicity	LC50 mg/l	>100	96 h				
	acrylic acid derivates							
	Algae toxicity	NOEC	10 mg/l	72 d	Pseudokirchneriella subcapitata	OECD 201		
162881-26-7	phenyl bis(2,4,6-trimethylk	enzoyl)-pho	sphine oxide	Э				
	Acute fish toxicity	LC50 mg/l	>0,09	96 h	Brachydanio rerio (zebra-fish)	OECD 203		
	Acute algae toxicity	ErC50 mg/l	>0,26	72 h	Desmodesmus subspicatus.	OECD 201		
	Acute crustacea toxicity	EC50 mg/l	>1,175	48 h	Daphnia magna (Big water flea)	OECD 202		
	Crustacea toxicity	NOEC mg/l	>0,008	21 d	Daphnia magna (Big water flea)	OECD 211		
	Acute bacteria toxicity	(>100 mg	/l)	3 h	OECD 209			

# 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name								
	Method Value d Source								
	Evaluation								
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide								
	CO2 formation (% of the theoretical value). 1% 29								
	Not readily biodegradable (according to OECD criteria)								

# 12.3. Bioaccumulative potential

The product has not been tested.

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	5,8

### **BCF**

CAS No	Chemical name	BCF	Species	Source
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	<5	Cyprinus carpio (Common Carp)	OECD 305

### 12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment

Not identivied as PBT/ vPvB substances

# 12.6. Other adverse effects

No information available.

### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods



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### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1. UN number:UN 186614.2. UN proper shipping name:Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Classification code:F1Limited quantity:5 L/ 30 kgHazard No:33Tunnel restriction code:D/E

## Other applicable information (land transport)

Flammable licquid

#### Marine transport (IMDG)

14.1. UN number:UN 186614.2. UN proper shipping name:Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Marine pollutant:-Special Provisions:-

Limited quantity: 5 L/ 30 kg EmS: 5 L/ 30 kg

### Other applicable information (marine transport)

Flash point: 12°C c.c.

# Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:UN 186614.2. UN proper shipping name:Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Limited quantity Passenger:1 L/ 30 kgPassenger LQ:Y341

IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

## Other applicable information (air transport)

Flash point: 12°C c.c.

#### 14.6. Special precautions for user

Warning: Combustible liquid.



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### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

### **SECTION 15: Regulatory information**

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

## National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

Highly flammable liquid and vapour.

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

# Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

### **Further Information**

H225

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

#### Identified uses

LCS: Life cycle stages

TF: Technical functions

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Gewerblich	-	-	-	-	-	-	-	2

PC: Product categories
ERC: Environmental release categories

SU: Sectors of use PROC: Process categories AC: Article categories

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