

schweizerischer verband des dentalhandels associations suisse du commerce dentaire SVDH, Moosstrasse 2, 3073 Gümligen Tel. 031 952 76 75 / Fax 031 952 76 83 http://www.svdh.ch/sdb

# safety data sheet

# to product

# **Palavit G Liquid**

## 1. Identification of the substance / preparation and company

### **Emergency number:**

Tox Info Suisse, Freiestrasse 16, 8032 Zürich; Tox-Info Suisse: 145 (24h-operation); info@toxinfo.ch; **In case of emergency: Tel. 145**; (abroad: +41 44 251 51 51); information: +41 44 251 66 66

### Company name:

	abc dental ag	Gaswerkstrasse 6, 8952 Schlieren Tel. 044 755 51 00, Fax 044 755 51 01
A ZHENRY SCHEIN" COMPANY	Condor Dental Research CO Sàrl	Ch. des Cibleries 2, CP 300, 1896 Vouvry Tel. 024 482 61 61, Fax 024 482 61 69
curaden dentaldepot	Curaden AG Dentaldepot	Riedstrasse 12, 8953 Dietikon Tel. 041 319 45 00, Fax 041 319 45 90
dema dent	dema dent AG	Furtbachstrasse 16, 8107 Buchs Tel. 044 838 65 65, Fax 044 838 65 66
Flexdental	Flexdental Services SA	Route de la Corniche 1, 1066 Epalinges Tel. 0848 336 825, Fax 021 907 67 02
JORDIZ	Jordi Röntgentechnik AG	Dammstrasse 70, 4142 Münchenstein Tel. 061 417 93 93, Fax 061 417 93 94
KALADENT	Kaladent AG	Schachenstrasse 2, 9016 St. Gallen Tel. 071 282 80 80, Fax 071 282 80 81
<b>LOMETRAL</b> Die Zahnarztausstatter.	Lometral AG	Binzenholzstrasse 20, 5704 Egliswil Tel. 062 775 05 05, Fax 062 775 33 07
	Novadent AG	Sägereistrasse 17, 8152 Glattbrugg Tel. 044 880 20 20, Fax 044 811 04 40
Smart Dentist Ich kann auch sol	Smart Dentist AG	Verenastrasse 4b, 8832 Wollerau Tel. 044 726 20 20, Fax 044 726 20 25



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Printing date 03.08.2022

Version number 4 (replaces version 3)

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· 1.1 Product id	1	nce/mixture and of the company
1.1 1 100000010	entifier	
· Trade name	e: Palavit G Liquid	
	dentified uses of the substance or mixt vant information available.	ure and uses advised against
· Applicatior	n of the substance / the mixture Manufa	cture of dental prothesis
	the supplier of the safety data sheet	
· Manufactui	rer/Supplier:	
Kulzer Gmb		
	traße 2, 63450 Hanau (Germany)	Tel.: +49 (0)800 437252
	department: E-Mail: msds@kulzer-dental. y telephone number: Emergency CONT/	.com ACT (24-Hour-Number): +49 (0)6132-84463
SECTION 2	: Hazards identification	
	tion of the substance or mixture	
	ion according to Regulation (EC) No 12	72/2008
	H225 Highly flammable liquid and vapo	
•	4 H332 Harmful if inhaled.	
Skin Irrit. 2	H315 Causes skin irritation.	
Skin Sens.	1 H317 May cause an allergic skin reaction	on.
	H335 May cause respiratory irritation.	
	pictograms	
GHS02	GHS07	
· Sianal v	vord Danger	
	determining components of labelling:	
methyl n	nethacrylate	
	ethyl-p-toluidine	
	statements ghly flammable liquid and vapour.	
H332 Ha	armful if inhaled.	
H315 Ca	auses skin irritation.	
	ay cause an allergic skin reaction.	
	ay cause respiratory irritation.	
P210	ionary statements Keep awav from heat, hot surface.	s, sparks, open flames and other ignitic
-	sources. No smoking.	, , , . ,
P260	Do not breathe mist/vapours/spray.	_
	Wear protective gloves / eye protectio 352 IF ON SKIN: Wash with plenty of soap	n. Sand water
P280	Joz II ON SININ. Wash with picity Of SOap	
P280 P302+P3	312 IF INHALED: Call a doctor if vou feel i	unwell.
P280 P302+P3 P304+P3 • <b>2.3 Other haza</b>		unwell.
P280 P302+P3 P304+P3 • <b>2.3 Other haza</b> • <b>Results of</b>		unwell.



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· vPvB: Not applicable.

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· 3.2 Mixtures · Description: -		
<ul> <li>Dangerous components:</li> </ul>		
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	>90%
CAS: 99-97-8 EINECS: 202-805-4 Reg.nr.: 01-2119956633-31-xxxx	N,N-dimethyl-p-toluidine Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Chronic 3, H412	<i>≥</i> 2.5-<5%

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

### 4.1 Description of first aid measures

General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · 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. Then consult doctor.

• After swallowing

Rinse out mouth and then drink plenty of water.

- In case of persistent symptoms consult doctor.
- Information for doctor Product based on methacrylates

· 4.2 Most important symptoms and effects, both acute and delayed

- No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### SECTION 5: Firefighting measures

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5.1 Extinguishing media
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- Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. • For safety reasons unsuitable extinguishing agents Water.
- **5.2 Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters Protective equipment: Wear self-contained breathing apparatus.

Put on breathing apparatus.

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### · Additional information -

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#### SECTION 6: Accidental release measures • 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. • 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars. • 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). Dispose of contaminated material as waste according to item 13.

#### • 6.4 Reference to other sections No dangerous materials are released. See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

## SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities · Storage

• Requirements to be met by storerooms and containers: Store in cool location.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Store in cool, dry conditions in well sealed containers.
- 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

90 62 6 r	nethyl methacry	data .		
	<u> </u>			
WEL (Gre	eat Britain)	Short-term value: 416 m Long-term value: 208 mg	g/m³, 100 ppm g/m³, 50 ppm	
IOELV (E	uropean Union)	Short-term value: 100 ppm Long-term value: 50 ppm		
· DN	IELs			
80-62-6 n	nethyl methacry	/late		
Oral	general popula	tion, long term, systemic	8.2 mg/Kg (not defined)	
Dermal	worker industri	al, long term, systemic	13.67 mg/Kg/d (not defined)	
		tion long term systemic	8.2 mg/Kg/d (not defined)	



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			(Contd. of page 3)
Inhalative worker industrial, acute, I		416 mg/m3 (not defined)	
worker industrial, long ter	-	348.4 mg/m3 (not defined)	
worker industrial, long ter		208 mg/m3 (not defined)	
general population, acute		208 mg/m3 (not defined)	
	term, systemic	74.3 mg/m3 (not defined)	
· PNECs			
80-62-6 methyl methacrylate	0.04 // /		
freshwater	0.94 mg/l (not	,	
marine water	0.094 mg/l (no	,	
sewage treatment plant	10 mg/l (not de		
sediment, dry weight, freshwater	10.2 mg/Kg (n		
sediment, dry weight, marine water	0.102 mg/Kg (I	not defined)	
soil, dry weight	1.48 mg/Kg (n		
• Additional information: The	lists that were	valid during the compilation we	re used as basis.
protective mask (filter A). • <b>Hand protection</b> The glove material has to be preparation. Selection of the glove materia the degradation	nd impregnated nd at the end of nd skin. local exhaust. e impermeable al on considera	d garments.	the substance/ th ates of diffusion an
Check protective gloves prior recommended • <b>Material of gloves</b> The selection of the suita further marks of quality ar preparation of several s calculated in advance and • <b>Penetration time of glov</b> For the mixture of chemic minutes (Permeation acco	able gloves do nd varies from a substances, th has therefore a <b>e material</b> cals mentioned ording to EN 16	es not only depend on the manufacturer to manufacturer to manufacturer. The resistance of the glove m to be checked prior to the applic below the penetration time ha 523-1:2015: Level 2).	As the product is a aterial can not be cation. as to be at least 3
gloves and has to be obse	erved.	found out by the manufacture um of 15 minutes gloves mad	



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# Trade name: Palavit G Liquid

· Body protection: Light weight protective clothing

9.1 Information on basic physical and che	emical properties
General Information	
Physical state	Fluid
· Colour:	Colourless
· Smell:	Characteristic
· Odour threshold:	Not determined.
<ul> <li>Melting point/freezing point:</li> </ul>	-48 °C
· Boiling point or initial boiling point a	and
boiling range	100 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	2.1 Vol %
· Upper:	12.5 Vol %
	10 °C
· Flash point:	
Ignition temperature:	430 °C
Decomposition temperature:	Not determined.
SADT	• • • • • • • • • • • •
· pH	Mixture is non-soluble (in water).
· Viscosity:	
<ul> <li>Kinematic viscosity</li> </ul>	Not determined.
· dynamic:	Not determined.
Solubility	
· Water:	Not miscible or difficult to mix
· Partition coefficient n-octanol/water	
value) at 20 °C	1.38 log POW
· Steam pressure at 20 °C:	47 hPa
	47 m a
Density and/or relative density	$0.04  c/cm^3$
Density at 20 °C	0.94 g/cm <sup>3</sup>
Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	Fluid
· Important information on protection	
health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
	Product is not explosive However formation a
• Explosive properties:	Product is not explosive. However, formation o
Ohanna in an diti	explosive air/vapour mixtures is possible.
Change in condition	
<ul> <li>Evaporation rate</li> </ul>	Not determined.
· Information with regard to physical haz	zard
classes	
· Explosives	Void
Elammable dasse	
Flammable gases	Void
Aerosols	Void
• Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour.



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· Flammable solids	Void	
<ul> <li>Self-reactive substances and mixtures</li> </ul>	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
• Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

• Conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions Exothermic polymerisation
- 10.4 Conditions to avoid Heat, flames and sparks.
- · 10.5 Incompatible materials:

Reacts with reducing agents

Reacts with heavy metals

Reacts with peroxides and other radical forming substances

10.6 Hazardous decomposition products: None

· Additional information: -

### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Harmful if inhaled.

<ul> <li>LD/LC50 values that are relevant for classification:</li> </ul>	
80-62-6 methyl methacrylate	

Oral	LD50	~7,900 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (guinea pig) (OECD 402)
Inhalative	LC50/4 h	29.8 mg/l (rat)
99-97-8 N	,N-dimeth	yl-p-toluidine
Oral	LD50	139 mg/kg (rat)
Causes · Seriou · Respir May ca · Germ o · Carcin · Reproo	atory or s ause an alle cell mutag ogenicity	ntion. <b>nage/irritation</b> No data available. <b>skin sensitisation</b> ergic skin reaction. <b>genicity</b> Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. <b>pricity</b> Based on available data, the classification criteria are not met.

• STOT-single exposure

May cause respiratory irritation.

· 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.

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#### · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION	12: Ecological information
· 12.1 Toxicity	· · · · · · · · · · · · · · · · · · ·
· Aquatic t	oxicity:
80-62-6 meth	nyl methacrylate
EC50/21d	49 mg/L (daphnia) (OECD 211)
EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)
NOEC / 21d	37 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>110 mg/l (algae) (OECD 201)
	110 mg/l (algae) (OECD 201)
NOEC / 48h	48 mg/l (daphnia) (EPA OTS 797.1300)
	>110 mg/l (algae) (OECD 201)
NOEC/ 35d	9.4 mg/L (fish) (OECD 210)
	33.7 mg/L (fish) (OECD 210)
	dimethyl-p-toluidine
LC50/96h	100 mg/l (fish)
· 12.2 Persiste	ence and degradability
80-62-6 meth	nyl methacrylate
	on 94 % /14d (not defined) (OECD 301C)
12.4 Mobility 12.5 Results PBT: Not vPvB: No 12.6 Endocri For informatic 12.7 Other a Additiona Gener Do not	Imulative potential No further relevant information available. In soil No further relevant information available. of PBT and vPvB assessment applicable. t applicable. In edisrupting properties on on endocrine disrupting properties see section 11. dverse effects al ecological information: al notes: allow product to reach ground water, water bodies or sewage system. r to drinking water if even small quantities leak into soil.
SECTION	13: Disposal considerations
• <b>Recomm</b> Disposal r Must not k system.	nust be made according to official regulations. The disposed of together with household garbage. Do not allow product to reach sewage
	d packagings:
· Kecon	nmendation:
Dienoe	al must be made according to official regulations.

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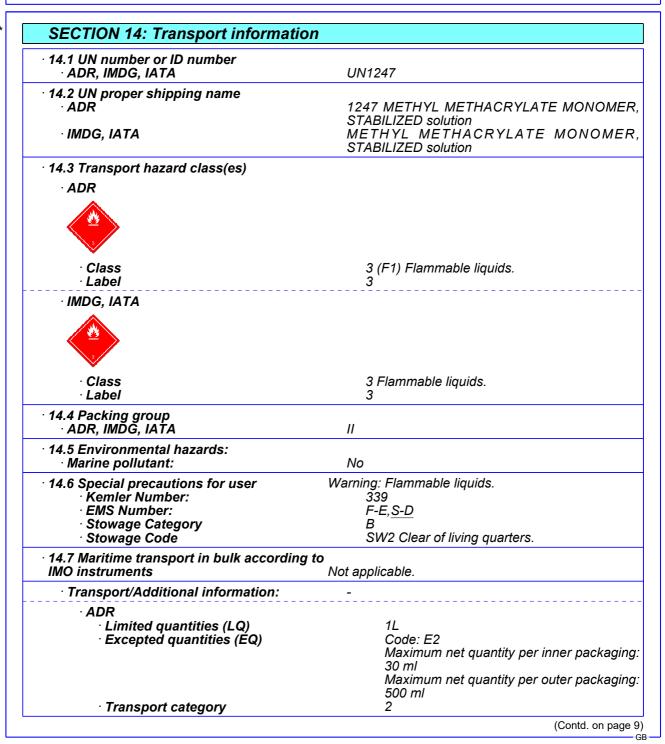
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Non contaminated packagings can be used for recycling.





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D/E
1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IN 1247 METHYL METHACRYLATE 10NOMER, STABILIZED SOLUTION, 3, II

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

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

Directive 2012/18/EU

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 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. Relevant phrases H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H330 Fatal if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects. Abbreviations and acronyms: SADT: Self Accelerating Decomposition Temperature ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement ADR: Accord relatif au transport international des marchandises dangere Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Section CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (ÚK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic VPVB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Skin Sens. 1: Skin sensitisation - Category 1

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STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 • \* **Data compared to the previous version altered.** 

GB