

Page 1/11

Safety Data Sheet acc. to OSHA HCS

Printing date 05/19/2025

Reviewed on 05/19/2025

1 Identification

- · Product identifier
 - · Trade name: Paladur Powder

- · Application of the substance / the mixture Manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522

Information department:

Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545 e-mail: customer.servicehkna@kulzer-dental.com

· Emergency telephone number:

Emergency CONTACT (24-Hour-Number)
ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

Classification of the substance or mixture

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Repeated Exposure H373 May cause damage to organs through prolonged or repeated exposure.

- · Label elements
 - GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms





GHS07 GHS08

- · Signal word Warning
- · Hazard-determining components of labeling:

dibenzoyl peroxide C.I. Pigment Red 149

methyl methacrylate

Hazard statements

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Avoid release to the environment.

Wear protective gloves / eye protection.

Wear protective clothing.

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

(Contd. on page 2)



Page 2/11

Safety Data Sheet acc. to OSHA HCS

Printing date 05/19/2025 Reviewed on 05/19/2025

Trade name: Paladur Powder

(Contd. of page 1)

· Classification system

· NFPA ratings for USA (scale 0-4)



Health = 0 *Fire* = 1 Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 0*Fire* = 1

- · Results of PBT and vPvB assessment
 - · PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - Description: -

· Danger	ous components:	
94-36-0	dibenzoyl peroxide	≥1-≤5%
	Self-reactive substances and mixtures - Type B, H241; Organic Peroxides - Type B, H241	
	Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
1953-33-9	5-butyl-1H,3H,5H-pyrimidine-2,4,6-trione	<i>≥0-≤</i> 5%
	Skin Irritation 2, H315; Eye Irritation 2A, H319	
4948-15-6	C.I. Pigment Red 149	<i>≥0-≤</i> 5%
	Specific Target Organ Toxicity - Repeated Exposure 2, H373	
80-62-6	methyl methacrylate	≥0.1-<1%
	Flammable Liquids 2, H225 Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	

[·] Additional information For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
 - After inhalation Supply fresh air; consult doctor in case of complaints.
 - After skin contact

Immediately 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 a doctor.
- After swallowing

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

(Contd. on page 3)



Page 3/11

Safety Data Sheet acc. to OSHA HCS

Printing date 05/19/2025 Reviewed on 05/19/2025

Trade name: Paladur Powder

(Contd. of page 2)

- · Information for doctor
 - · Most important symptoms and effects, both acute and delayed Allergic reactions
 - Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - · Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture

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

- Advice for firefighters
 - · Protective equipment: No special measures required.
- · Additional information -

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures

 Avoid contact with eyes and skin.
- · Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections
- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

· PAC-	1:	
	dibenzoyl peroxide	15 mg/m³
80-62-6	methyl methacrylate	17 ppm
· PAC-		
	dibenzoyl peroxide	1,200 mg/m³
80-62-6	methyl methacrylate	120 ppm
· PAC-	3:	
	dibenzoyl peroxide	7,000 mg/m ³
80-62-6	methyl methacrylate	570 ppm

7 Handling and storage

- · Handling
 - Precautions for safe handling No special measures required.

(Contd. on page 4)



Page 4/11

Safety Data Sheet acc. to OSHA HCS

Reviewed on 05/19/2025 Printing date 05/19/2025

Trade name: Paladur Powder

(Contd. of page 3)

Please observe the additional instructions in the product's instructions for use.

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
 - Storage
 - Requirements to be met by storerooms and receptacles: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters

Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

94-3	6-0 dibenzoyl peroxide
PEL	Long-term value: 5 mg/m³
REL	Long-term value: 5 mg/m³
TLV	Long-term value: 5 mg/m³
	A4
80-62	2-6 methyl methacrylate
PEL	Long-term value: 410 mg/m³, 100 ppm
REL	Long-term value: 410 mg/m³, 100 ppm
TLV	Short-term value: 100 ppm

Long-term value: 50 ppm

DSEN, A4

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
 - Personal protective equipment
 - General protective and hygienic measures

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

- · Breathing equipment: Not necessary if room is well-ventilated.
- · Protection of hands:

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

Check protective gloves prior to each use for their proper condition. recommended

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 5)



Page 5/11

Safety Data Sheet acc. to OSHA HCS

Printing date 05/19/2025 Reviewed on 05/19/2025

Trade name: Paladur Powder

(Contd. of page 4)

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
Butyl rubber, BR
Nitrile rubber, NBR

Eye protection: Tightly sealed goggles.
Body protection: Light weight protective clothing

Information on basic physical and chemical properties				
General Information Appearance:				
· Form:	Powder			
· Color:	Colorless			
	Pink			
· Odor:	Odorless			
· Odor threshold:	Not determined.			
· pH-value:	Mixture is non-soluble (in water).			
· Change in condition				
Melting point/Melting range:	undetermined			
Boiling point/Boiling range:	undetermined			
· Flash point:	251 °C (483.8 °F)			
· Flammability (solid, gaseous)	Not determined.			
· Auto igniting:	>400 °C (>752 °F)			
· Decomposition temperature:	Not determined.			
· Ignition temperature:	Product is not selfigniting.			
Danger of explosion:	Product does not present an explosion hazard. Not determined.			
· Explosion limits:				
Lower:	Not determined.			
· Upper:	Not determined.			
· Vapor pressure:	Not applicable.			
· Density:	Not determined			
· Relative density	Not determined.			
· Vapor density	Not applicable.			
Evaporation rate	Not applicable.			

(Contd. on page 6)



Page 6/11

Safety Data Sheet acc. to OSHA HCS

Printing date 05/19/2025 Reviewed on 05/19/2025

Trade name: Paladur Powder

		(Contd. of page				
· Partition coefficient (n-octa	· Partition coefficient (n-octanol/water): Not determined.					
· Viscosity: · dynamic: · kinematic:	Not applicable. Not applicable.					
· Solvent content: · Water:	0.2-0.3 %					
· Solids content:	99.8 %					
Other information	No further relevant information available.					

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: none
- · Additional information: -

11 Toxicological information

- · Information on toxicological effects
 - · Acute toxicity:

· LD/	· LD/LC50 values that are relevant for classification:							
94-36-0 di	94-36-0 dibenzoyl peroxide							
Oral	LD0	>2,000 mg/kg (mouse) (OECD 401)						
Inhalative	LC0/4h	0/4h 24.3 ppm (rat) (OECD 403)						
80-62-6 m	ethyl met	hacrylate						
Oral	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)						

- · Primary irritant effect:
 - on the skin: Based on available data, the classification criteria are not met.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
 - · Carcinogenic categories

	· IARC (International Agency for Research on Cancer)					
94-36-0	dibenzoyl peroxide	3				
80-62-6	methyl methacrylate	3				
	· NTP (National Toxicology Program)					
None of	the ingredients is listed.					
	(Contd. or	n page 7)				

us



Page 7/11

Safety Data Sheet acc. to OSHA HCS

Printing date 05/19/2025 Reviewed on 05/19/2025

Trade name: Paladur Powder

(Contd. of page 6)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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

12 Ecological information

· Aquatic toxicity:

· Toxicity

-1 -		7	
94-36-0	dibenz	zoyl peroxide	

EC50/72h	0.042 mg/l (algae) (OECD 201)
EC50/48h	0.11 mg/l (daphnia) (OECD 202)
LC50/96h	0.06 mg/l (fish) (OECD 203)
ErC50 / 72 h	0.071 mg/l (algae) (OECD 201)
NOEC / 72h	0.02 mg/l (algae) (OECD 201)
NOEC / 96h	0.032 mg/l (fish) (OECD 203)
	0.076 mg/l (daphnia) (OECD 202)
ErC10	0.001 mg/L /21d (daphnia) (OECD 211)

80-62-6 methyl methacrylate

Persistence and degradability

94-36-0 dibenzoyl peroxide

biodegradability 71 % /28d (not defined) (OECD 301D)

80-62-6 methyl methacrylate

biodegradability 94 % /14d (not defined) (OECD 301C)

- Behavior in environmental systems:
 - · Bioaccumulative potential No further relevant information available.
 - · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
 - · Remark: Harmful to fish
- · Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

(Contd. on page 8)



Page 8/11

Safety Data Sheet acc. to OSHA HCS

Printing date 05/19/2025 Reviewed on 05/19/2025

Trade name: Paladur Powder

(Contd. of page 7)

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
 - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

- · Uncleaned packagings:
 - · Recommendation:

Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.

4	4	_					-4	•	· C -		- 4* -	
7	4	П	ra	ns	D	O	rτ	In	ITO	rm	atio	n

· UN-Number

· DOT, ADR, IMDG, IATA

UN proper shipping name DOT

· ADR

· IMDG, IATA

UN3077

Environmentally hazardous substance, solid, n.o.s. 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)

- · Transport hazard class(es)
 - · DOT



· Class

9 Miscellaneous dangerous substances and articles

· Label

(Contd. on page 9)

US



Page 9/11

Safety Data Sheet acc. to OSHA HCS

Printing date 05/19/2025 Reviewed on 05/19/2025

Trade name: Paladur Powder

(Contd. of page 8) · ADR · Class 9 (M7) Miscellaneous dangerous substances and articlés · Label · IMDG, IATA · Class 9 Miscellaneous dangerous substances and articles ·Label 9 · Packing group · DOT, ADR, IMDG, IATA Ш · Environmental hazards: Marine pollutant: Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · Special marking (IATÁ): Symbol (fish and tree) · Special precautions for user Warning: Miscellaneous dangerous substances and articles · Hazard identification number (Kemler code): 90 F-A,S-F · EMS Number: · Stowage Category · Stowage Code SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · ADR · Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 ·IMDG · Limited quantities (LQ) 5 kg (Contd. on page 10)



Page 10/11

Safety Data Sheet acc. to OSHA HCS

Printing date 05/19/2025 Reviewed on 05/19/2025

Trade name: Paladur Powder

	(Contd. of page 9)
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE), 9, III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

No further relevant info · Sara	ormation available.	
· SARA Secti	on 355 (extremely hazardous substances)	

- None of the ingredients is listed.
- - SARA Section 313 (specific toxic chemical listings)
- 94-36-0 dibenzoyl peroxide
- 80-62-6 methyl methacrylate
 - · Hazardous Air Pollutants
- 80-62-6 methyl methacrylate
 - · Proposition 65
 - Prop 65 Chemicals known to cause cancer
- None of the ingredients is listed.
 - · Chemicals known to cause reproductive toxicity for females:
 - None of the ingredients is listed.
 - · Chemicals known to cause reproductive toxicity for males:
 - None of the ingredients is listed.
 - · Chemicals known to cause developmental toxicity:
 - None of the ingredients is listed.
 - · Cancerogenity categories

Cancer ogenity categories	
· EPA (Environmental Protection Agency)	
80-62-6 methyl methacrylate	E, NL
· TLV (Threshold Limit Value)	
94-36-0 dibenzoyl peroxide	A4
80-62-6 methyl methacrylate	A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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

US



Page 11/11

Safety Data Sheet acc. to OSHA HCS

Printing date 05/19/2025 Reviewed on 05/19/2025

Trade name: Paladur Powder

(Contd. of page 10)

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 vapor.

H241 Heating may cause a fire or explosion.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Date of preparation / last revision 05/19/2025 / 3

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

Flammable Liquids 2: Flammable liquids - Category 2

Self-reactive substances and mixtures - Type B: Self-reactive substances and mixtures - Type B Organic Peroxides - Type B: Organic peroxides - Type B Skin Irritation 2: Skin corrosion/irritation - Category 2

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

Sensitization - Skin 1: Skin sensitisation — Category 1
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) — Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) — Category 2

* Data compared to the previous version altered.