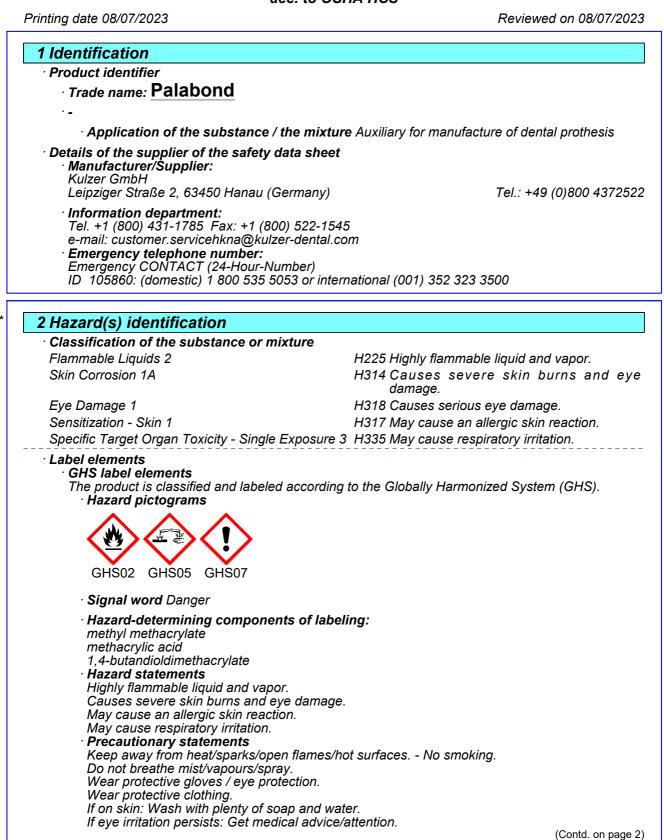


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Safety Data Sheet acc. to OSHA HCS





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Trade name: Palabond

(Contd. of page 1) · Classification system NFPA ratings for USA (scale 0-4) Health = 2Fire = 3Reactivity = 2· HMIS-Ratings (Scale 0-4) HEALTH *3 Health = *3FIRE Fire = 3 3 Reactivity = 2 **REACTIVITY** 2 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. 3 Composition/information on ingredients · Chemical characterization: Mixtures Description: Composition based on methacrylates · Dangerous components: 80-62-6 methyl methacrylate 75-90% Flammable Liquids 2, H225 Skin Irritation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335 79-41-4 methacrylic acid 5% Acute Toxicity - Dermal 3, H311 Skin Corrosion 1A, H314; Eye Damage 1, H318 Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Specific Target Organ Toxicity - Single Exposure 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %

 2082-81-7
 1,4-butandioldimethacrylate
 ≥1-≤5%

 Sensitization - Skin 1B, H317
 • Additional information For the wording of the listed hazard phrases refer to section 16.

Additional mormation For the wording of the listed hazard phrases refer to sect

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. If symptoms persist, consult a doctor. After swallowing
- Rinse out mouth and then drink plenty of water.
- If symptoms persist consult doctor.
- Composition based on methacrylates
- · Information for doctor
 - Most important symptoms and effects, both acute and delayed No further relevant information available.

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(Contd. of page 2) · 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, sand, extinguishing powder. Do not use water. For safety reasons unsuitable extinguishing agents Water.
- 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.
- Advice for firefighters Protective equipment: No special measures required.
- · Additional information -

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Avoid contact with eyes and skin.

· Environmental precautions: Prevent seepage into sewage system, workpits and cellars. Methods and material for containment and cleaning up: Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues). Do not flush with water or aqueous cleansing agents Send for recovery or disposal in suitable receptacles.

Reference to other sections See Section 13 for disposal information. See Section 8 for information on personal protection equipment.

7 Handling and storage

· Handling

- Precautions for safe handling
- Keep receptacles tightly sealed.

Keep away from heat and direct sunlight.

- Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke.
- Protect from heat.
- Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities Storage

- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep cool, if possible (not above 25 °C). Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· Specific end use(s) No further relevant information available.

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· Addi	itional information about design of technical systems: No further data; see section 7.
	trol parameters
· C	omponents with limit values that require monitoring at the workplace:
	he following constituents are the only constituents of the product which have a PEL, TLV or othe
	ecommended exposure limit.
A	t this time, the remaining constituent has no known exposure limits.
80-62	2-6 methyl methacrylate
PEL	Long-term value: 410 mg/m ³ , 100 ppm
	Long-term value: 410 mg/m³, 100 ppm
	Short-term value: 100 ppm
ILV	Short-term value: Too ppm
	Long-term value: 50 ppm
	DSEN, A4
	1-4 methacrylic acid
REL	Long-term value: 70 mg/m³, 20 ppm
	Skin
TLV	Long-term value: 20 ppm
	• Additional information: The lists that were valid during the creation were used as basis.
· Fynd	osure controls
· P	ersonal protective equipment
	 General protective and hygienic measures Keep away from foodstuffs, beverages and feed.
	Keen away from toodstuffs beverades and feed
	Reep away non rougians, beverages and reed.
	Immediately remove all soiled and contaminated clothing
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Trade name: Palabond

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

9 Physical and chemical proper	9 Physical and chemical properties				
 Information on basic physical and chemical properties General Information 					
· Appearance: · Form:	Eluid				
· Color:	Fluid Colorless				
Odor:	Characteristic				
· Odor threshold:	Not determined.				
· pH-value:	Mixture is non-soluble (in water).				
•					
· Change in condition	undatorminad				
• Melting point/Melting range:	undetermined 100 °C (212 °F)				
· Boiling point/Boiling range:					
· Flash point:	10 °C (50 °F)				
· Flammability (solid, gaseous)	Not applicable.				
· Auto igniting:	370.0 °C (698 °F)				
 Decomposition temperature: 	Not determined.				
· Ignition temperature:	Product is not selfigniting.				
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.				
 Explosion limits: Lower: Upper: 	2.1 Vol % 12.5 Vol %				
· Vapor pressure at 20 °C (68 °F):	47 hPa (35.3 mm Hg)				
· Density at 20 °C (68 °F):	0.940 g/cm³ (7.8443 lbs/gal)				
· Relative density	Not determined.				
· Vapor density	Not determined.				
· Evaporation rate	Not determined.				
Solubility in / Miscibility with Water:	Not miscible or difficult to mix				
· Partition coefficient (n-octanol/water): Not determined.					
· Viscosity:					
dynamic at 20 °C (68 °F):	1 mPas				
· kinematic:	Not determined.				
· 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.

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- Hazardous decomposition products: none Additional information:

Product might polymerize after considerable exceeding of recommended storage time or temperature.

· Acute	toxicity:	cological effects				
	· LD/LC50 values that are relevant for classification:					
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)				
79-41-4 m	ethacrylic	acid				
Oral	LD50	1,320 mg/kg (ATE)				
		1,320 mg/kg (rat) (OECD 401)				
Dermal	LD50	500 mg/kg (ATE)				
		500-1,000 mg/kg (rabbit)				
Inhalative	LC50/4 h	11 mg/l (ATE)				
		7.1 mg/l (rat) (OECD 403)				
2082-81-7	1,4-butar	dioldimethacrylate				
Oral	LD50	10,066 mg/kg (rat) (OECD 401)				
 on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect. Sensitization: Sensitization possible through skin contact. Additional toxicological information: The product shows the following dangers according to the calculation method of the General El Classification Guidelines for Preparations as issued in the latest version: 						
	cinoaenic	categories				
	-	rnational Agency for Research on Cancer)				
80-62-6 n	•					
NTP (National Toxicology Program)						
None of the ingredients is listed.						
· (OSHA-Ca	(Occupational Safety & Health Administration)				
None of th	None of the ingredients is listed.					
· Reproductive toxicity Based on available data, the classification criteria are not met.						

· Toxicity

· Aquatic toxicity:

80-62-6 methyl methacrylate

EC50/21d 49 mg/L (daphnia) (OECD 211)

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EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)
	37 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>110 mg/l (algae) (OECD 201)
NOEC / 72h	110 mg/l (algae) (OECD 201)
NOEC / 48h	48 mg/l (daphnia) (EPA OTS 797.1300)
EbC50 / 72h	>110 mg/l (algae) (OECD 201)
NOEC/ 35d	9.4 mg/L (fish) (OECD 210)
LC50/ 35d	33.7 mg/L (fish) (OECD 210)
79-41-4 metl	
EC50/48h	>130 mg/l (daphnia) (EPA OTS 797.1300)
LC50/96h	85 mg/l (fish) (EPA OTS 797.1400)
NOEC / 21d	53 mg/l (daphnia)
ErC50 / 72 h	45 mg/l (algae) (OECD 201)
NOEC / 72h	8.2 mg/l (algae) (OECD 201)
NOEC / 96h	12 mg/l (fish) (EPA OTS 797.1400)
NOEC / 48h	130 mg/l (daphnia) (EPA OTS 797.1300)
NOEC/ 35d	10 mg/L (fish) (OECD 210)
LC50/ 35d	42 mg/L (fish) (OECD 210)
2082-81-7 1,4	4-butandioldimethacrylate
EC50/21d	14.1 mg/L (daphnia) (OECD 211)
EC50/48h	32.5 mg/l (fish)
NOEC / 21d	5.09 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	9.79 mg/l (algae) (OECD 201)
	2.11 mg/l (algae) (OECD 201)
NOEC / 48h	25 mg/l (fish)
ErC10/72h	4.35 mg/L (algae) (OECD 201)
· Persistence	and degradability
80-62-6 metl	nyl methacrylate
	lity 94 % /14d (not defined) (OECD 301C)
79-41-4 metl	•
	lity 86 % /28d (not defined) (OECD 301D)
	4-butandioldimethacrylate
	lity 84 % /28d (not defined) (OECD 310)
Bioaccun Mobility i Additional e General r Do not all Sewage s Danger to Results of P PBT: Not	ow product to reach ground water, water course or sewage system. low undiluted product or large quantities of it to reach ground water, water course or ystem. drinking water if even small quantities leak into the ground. BT and vPvB assessment
VEVD. NO	(Contd. on page 8)
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Must not be disposed of together with household garbage. Do not allow product to reach sewage

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system.

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13 Disposal considerations Waste treatment methods Recommendation

· Other adverse effects No further relevant information available.

Disposal must be made according to official regulations.

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· Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling. 14 Transport information · UN-Number UN2924 DOT, ADR, IMDG, IATA · UN proper shipping name Flammable liquids, corrosive, n.o.s. (Methyl methacrylate monomer, stabilized, Methacrylic acid, · ĎOŤ stabilized) 2924 FLÁMMABLE LIQUID, CORROSIVE, N.O.S. · ADR (METHYL METHACRYLATE MONOMER, STABILIZED, METHACRYLIC ACID, STABILIZED) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYL METHACRYLATE MONOMER, · IMDG, IATA STABILIZED, METHACRYLIC ACID, STABILIZED) · Transport hazard class(es) ·DOT · Class 3 Flammable liquids · Label 3 · ADR · Class 3 (FC) Flammable liquids · Label 3+8 (Contd. on page 9)



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Trade name: Palabond (Contd. of page 8) ·IMDG 3 Flammable liquids · Class · Label 3/8 ·IATA 3 Flammable liquids · Class · Label 3 (8) · Packing group · DOT, ADR, IMDG, IATA \parallel · Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): 338 · EMS Number: F-E.S-C Segregation groups Acids · Stowage Category В · Stowage Code SW2 Clear of living quarters. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · ADR · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml ·IMDG · Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · UN "Model Regulation": UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYL METHACRYLATE MONÓMER, STABILIZED, METHACRYLIC ACID, STABILIZED), 3 (8), II US

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Trade name: Palabond

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15 Regulat	tory information
Safety, he No further Sar	relevant information available.
	SARA Section 355 (extremely hazardous substances)
	ne ingredients is listed.
	SARA Section 313 (specific toxic chemical listings)
	nethyl methacrylate
	position 65
	Prop 65 - Chemicals known to cause cancer
	ne ingredients is listed.
	Chemicals known to cause reproductive toxicity for females:
	ne ingredients is listed.
	Chemicals known to cause reproductive toxicity for males:
	ne ingredients is listed.
	Chemicals known to cause developmental toxicity:
None of tr	ne ingredients is listed.
	ncerogenity categories
	EPA (Environmental Protection Agency)
80-62-6 n	nethyl methacrylate E;NL
	TLV (Threshold Limit Value)
80-62-6 n	nethyl methacrylate A4
-	NIOSH-Ca (National Institute for Occupational Safety and Health)
	ne ingredients is listed.
· Chemical	I safety assessment: A Chemical Safety Assessment has not been carried out.
6 Other ir	nformation
	ta are based on our present knowledge. However, they shall not constitute a guarantee for
any speci	fic product features and shall not establish a legally valid contractual relationship.
Rel	levant phrases
	25 Highly flammable liquid and vapor.
	02 Harmful if swallowed. 11 Toxic in contact with skin.
	14 Causes severe skin burns and eye damage.
	15 Causes skin irritation.
	17 May cause an allergic skin reaction.
H3:	18 Causes serious eye damage.
H33	32 Harmful if inhaled.
	35 May cause respiratory irritation.
	of preparation / last revision 08/07/2023
	viations and acronyms: ccord relatif au transport international des marchandises dangereuses par route (European Agreemen
Concern	ing the International Carriage of Dangerous Goods by Road)
IMDG: II	nternational Maritime Code for Dangerous Goods
	S Department of Transportation ternational Air Transport Association
	European Inventory of Existing Commercial Chemical Substances
	: European List of Notified Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

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Safety Data Sheet acc. to OSHA HCS

Printing date 08/07/2023

Reviewed on 08/07/2023

Trade name: Palabond

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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 Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity - Oral 4: Acute toxicity – Category 4 Acute Toxicity - Oral 4: Acute toxicity – Category 3 Skin Corrosion 1A: Skin corrosion/irritation – Category 1 Sensitization - Skin 1B: Skin sensitisation – Category 1 Sensitization - Skin 1B: Skin sensitisation – Category 1B Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered.