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Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

Tel.: +49 (0)800 4372522

1 Identification

- · Product identifier
 - · Trade name: PalaXpress ultra liquid
 - · 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)

· 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)

GBK/Infotrac ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
 - GHS label elements

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

· Hazard pictograms





GHS02 GHS07

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

methyl methacrylate

tetramethylene dimethacrylate

· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Specific treatment (see on this label).

Store locked up.

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Trade name: PalaXpress ultra liquid

· Classification system

NFPA ratings for USA (scale 0-4)



Health = 1 Fire = 3 Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 1 Fire = 3 Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - · Description: -

· Dangerous components:		
80-62-6	methyl methacrylate	> 90%
	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
	tetramethylene dimethacrylate	0-5%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
73297-27-5	aliphatic urethane acrylate	0-5%
	Eye Irrit. 2A, H319	

· 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.

- · Information for doctor
 - Most important symptoms and effects, both acute and delayed No further relevant information available.

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

5 Fire-fighting measures

- · Extinguishing media
 - Suitable extinguishing agents void
 - · For safety reasons unsuitable extinguishing agents Water with full jet.
- · 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:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information -

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

· Methods and material for containment and cleaning up:

Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).

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.

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7 Handling and storage

- · Handling
 - · Precautions for safe handling

Keep receptacles 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.

- · 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.

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• Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

. C	omponents with limit values that require monitoring at the workplace:
80-62	2-6 methyl methacrylate
PEL	410 mg/m³, 100 ppm
REL	410 mg/m³, 100 ppm
TLV	Short-term value: 410 mg/m³, 100 ppm Long-term value: 205 mg/m³, 50 ppm SEN

· Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
 - Personal protective equipment
 - General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:

Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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

Solvent resistant gloves

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.

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

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Nitrile rubber, NBR
• Eye protection: Safety glasses
• Body protection: Protective work clothing.

Physical and chemical propert	
Information on basic physical and ch General Information Appearance:	nemical properties
· Form:	Fluid
· Color:	Colorless
· Odor: · Odor threshold:	Ester-like Not determined.
· pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	undetermined > 100 °C (> 212 °F)
· Flash point:	10 °C (50 °F)
Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	430 °C (806 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosivair/vapor mixtures are possible.
Explosion limits: Lower: Upper:	2.1 Vol % 12.5 Vol %
· Vapor pressure at 20 °C (68 °F):	47 hPa (35 mm Hg)
· Density:	Not determined
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/wa	nter): Not determined.
Viscosity: dynamic: kinematic:	Not determined. Not determined.
· Other information	No further relevant information available.



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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:

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

11 Toxicological information

- Information on toxicological effects
 - · Acute toxicity:

	7.00.0	coxioncy.	
· LD/LC50 values that are relevant for classi			es that are relevant for classification:
80-62-6 methyl methacrylate			hacrylate
	Oral	LD50	>5000 mg/kg (rat)
	Dermal	LD50	>5000 mg/kg (rab)
	Inhalative	LC50/4 h	29.8 mg/l (rat)
2082-81-7 tetramethylene dimethacrylate			nylene dimethacrylate
	Oral	LD50	10120 mg/kg (rat)
	5137-55-3 methyltrioctylammonium chloride		
	Oral	LD50	223 mg/kg (rat)

- · Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - · on the eye: Slight irritation possible
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information: Irritant
 - · Carcinogenic categories

Our chiogenic categories	
· IARC (International Agency for Research on Cancer)	
80-62-6 methyl methacrylate	3
123-31-9 1,4-dihydroxybenzene	3
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed	

12 Ecological information

- · Toxicity
 - · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
 - · Bioaccumulative potential No further relevant information available.

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- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes: Avoid transfer into the environment. 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.

- · Uncleaned packagings:
 - · Recommendation: Disposal must be made according to official regulations.

	formation

· UN-Number

UN1247 · DOT · ADR, IMDG, IATA 1247

· UN proper shipping name

· ÀDŔ 1247 METHYL METHACRYLATE MONOMER,

STABILIZED, mixture

METHYL METHACRYLATE MONOMER, · IMDG, IATA

STABILIZED, mixture

- · Transport hazard class(es)
 - · DOT



· Class 3 Flammable liquids

· Label

· ADR



· Class 3 (F1) Flammable liquids

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· Label	3
· IMDG	
8	
· Class · Label	3 Flammable liquids 3
· IATA	
· Class · Label	Void 3
· Packing group · DOT · ADR, IMDG, IATA	III II
· Environmental hazards: · Marine pollutant:	No
Special precautions for user Danger code (Kemler):	Warning: Flammable liquids 339
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	-
· UN "Model Regulation":	UN1247, METHYL METHACRYLATE MONOMER STABILIZED, mixture, 3, II

15 Regulatory information

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

· SARA Section 355 (extremely hazardous substances)

123-31-9 1,4-dihydroxybenzene

· Cancerogenity categories

· TLV (Threshold Limit Value established by ACGIH)			
80-62-6	methyl methacrylate	A4	
123-31-9	1,4-dihydroxybenzene	A3	

GHS label elements

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

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Hazard pictograms





GHS02 GHS07

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

methyl methacrylate

tetramethylene dimethacrylate

· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Specific treatment (see on this label).

Store locked up.

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

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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Date of preparation / last revision 06/03/2017 / 2

Abbreviations and acronyms:

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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

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

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OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
. * Data compared to the previous version altered.