



**Safety data sheet  
according to 1907/2006/EC, Article 31**

Printing date 23.07.2020

Version number 2

Revision: 23.07.2020

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

· **1.1 Product identifier**

· Trade name: **PalaXtreme Liquid**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

· **Application of the substance / the mixture** Manufacture of dental prothesis

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Tel.: +49 (0)800 4372522

· **Informing department:** E-Mail: [msds@kulzer-dental.com](mailto:msds@kulzer-dental.com)

· **1.4 Emergency telephone number:** Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**

methyl methacrylate

2-[[[(butylamino)carbonyl]oxy]ethyl acrylate

(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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.

P261

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

P273

Avoid release to the environment.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· **2.3 Other hazards -**

· **Results of PBT and vPvB assessment**

- PBT: Not applicable.
- vPvB: Not applicable.

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

· **3.2 Chemical characterisation: Mixtures**

· **Description: -**

· **Dangerous components:**

|  |  |               |
|--|--|---------------|
| CAS: 80-62-6<br>EINECS: 201-297-1<br>Reg.nr.: 01-2119452498-28-XXXX    | methyl methacrylate<br>Flam. Liq. 2, H225<br>Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335  | 75-90%        |
| CAS: 63225-53-6<br>EINECS: 264-036-0<br>Reg.nr.: 01-2120751208-56-XXXX | 2-[[[butylamino]carbonyl]oxy]ethyl acrylate<br>Acute Tox. 3, H331<br>Aquatic Chronic 2, H411<br>Skin Sens. 1, H317   | 5-10%         |
| CAS: 97553-94-1  | Aliphatic urethane acrylate<br>Skin Irrit. 2, H315; Eye Irrit. 2, H319   | 0-5%          |
| CAS: 40220-08-4<br>EINECS: 254-843-6<br>Reg.nr.: 01-2120741502-64-xxxx | (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl) triethylene triacrylate<br>Eye Dam. 1, H318<br>Aquatic Chronic 2, H411<br>Skin Sens. 1B, H317  | ≥1-<2.5%      |
| CAS: 63393-96-4  | Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides<br>Acute Tox. 3, H301<br>Repr. 2, H361<br>Skin Corr. 1C, H314; Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) | ≥0.025-<0.25% |

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

**SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

· **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. If symptoms persist, consult doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

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- **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**

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents** CO<sub>2</sub>, 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.  
Wear full protective suit.
  - **Additional information -**

### **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).  
Send for recovery or disposal in suitable containers.
- **6.4 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 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.

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**SECTION 8: Exposure controls/personal protection**

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

· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

**80-62-6 methyl methacrylate**

|     |  |
|-----|--|
| WEL | Short-term value: 416 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 208 mg/m <sup>3</sup> , 50 ppm |
|-----|--|

· **DNELs**

**80-62-6 methyl methacrylate**

|            |                               |                               |
|------------|-------------------------------|-------------------------------|
| Dermal     | worker industr., l.te., syst. | 74.3 mg/Kg/d (human)          |
| Inhalative | worker industr., l.te., syst. | 210 mg/m <sup>3</sup> (human) |

**63225-53-6 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate**

|            |                               |                            |
|------------|-------------------------------|----------------------------|
| Oral       | ge.pop., l.te, syst.          | 1 mg/Kg (nd)               |
| Dermal     | worker industr., l.te., syst. | 2 mg/Kg/d (nd)             |
|            | ge.pop., l.te, syst.          | 1 mg/Kg/d (nd)             |
| Inhalative | worker industr., l.te., syst. | 9.9 mg/m <sup>3</sup> (nd) |
|            | ge.pop., l.te, syst.          | 1.7 mg/m <sup>3</sup> (nd) |

· **PNECs**

**80-62-6 methyl methacrylate**

|            |                  |
|------------|------------------|
| freshwater | 0.94 mg/l (aqua) |
|------------|------------------|

**63225-53-6 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate**

|                      |                  |
|----------------------|------------------|
| freshwater           | 0.003 mg/l (nd)  |
| marine water         | 0 mg/l (nd)      |
| STP                  | 3.54 mg/l (nd)   |
| sedim., dw, fre.wat. | 0.024 mg/Kg (nd) |
| sedim., dw, mar.wat. | 0.002 mg/Kg (nd) |
| soil,dw              | 0.003 mg/Kg (nd) |

**63393-96-4 Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides**

|                      |                 |
|----------------------|-----------------|
| marine water         | 0.02 mg/l (nd)  |
| STP                  | 5.5 mg/l (nd)   |
| sedim., dw, fre.wat. | 2.1 mg/Kg (nd)  |
| sedim., dw, mar.wat. | 0.21 mg/Kg (nd) |

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

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the 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).

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· **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.

· **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

Nitrile rubber, NBR

· **Eye protection:** Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:**

Fluid

· **Colour:**

Colourless

· **Smell:**

Ester-like

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

· **Melting point/freezing point:**

Not determined

· **Initial boiling point and boiling range:** 100 °C

· **Flash point:**

10 °C

· **Inflammability (solid, gaseous)**

Not applicable.

· **Ignition temperature:**

430 °C

· **Decomposition temperature:**

Not determined.

· **Self-inflammability:**

Product is not selfigniting.

· **Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

· **Critical values for explosion:**

· **Lower:**

2.1 Vol %

· **Upper:**

12.5 Vol %

· **Steam pressure at 20 °C:**

47 hPa

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|  |  |
|--|--|
| · <b>Density</b>                                 | Not determined                             |
| · <b>Relative density</b>                        | Not determined.                            |
| · <b>Vapour density</b>                          | Not determined.                            |
| · <b>Evaporation rate</b>                        | Not determined.                            |
| · <b>Solubility in / Miscibility with</b>        |  |
| · <b>Water:</b>                                  | Not miscible or difficult to mix           |
| · <b>Partition coefficient: n-octanol/water:</b> | Not determined.                            |
| · <b>Viscosity:</b>                              |  |
| · <b>dynamic:</b>                                | Not determined.                            |
| · <b>kinematic:</b>                              | Not determined.                            |
| · <b>Solvent content:</b>                        |  |
| · <b>Water:</b>                                  | 0.1 %                                      |
| · <b>Solids content:</b>                         | 0.1 %                                      |
| · <b>9.2 Other information</b>                   | No further relevant information available. |

**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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** None
- **Additional information:** -

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
  - **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

| <b>80-62-6 methyl methacrylate</b>   |          |                                      |
|--|----------|--------------------------------------|
| Oral   | LD50     | ~7,900 mg/kg (rat)                   |
| Dermal   | LD50     | >5,000 mg/kg (rab) (OECD 402)        |
| Inhalative   | LC50/4 h | 29.8 mg/l (rat)                      |
| <b>63225-53-6 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate</b>                       |          |                                      |
| Oral   | LD50     | >2,000-<5,000 mg/kg (rat) (OECD 423) |
| <b>40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate</b> |          |                                      |
| Oral   | LD50     | >2,000 mg/kg (rat) (OECD 423)        |
| <b>63393-96-4 Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides</b>    |          |                                      |
| Oral   | LD50     | >200-<2,000 mg/kg (rat) (OECD 401)   |

- **Primary irritant effect:**
  - **Skin corrosion/irritation**  
Causes skin irritation.
  - **Serious eye damage/irritation**  
Slight irritation possible  
Causes serious eye irritation.

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- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.

|  |   |
|--|---|
| · <b>Reproductive toxicity</b>                                 |   |
| <b>63225-53-6 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate</b> |   |
| Oral   | NOAEL(C) 100 mg/kg (rat)                    |
|  | NOAEL (parental toxicity) 300 mg/kg/d (rat) |

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.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

|  |                                 |
|--|---------------------------------|
| · <b>Aquatic toxicity:</b>   |                                 |
| <b>80-62-6 methyl methacrylate</b>   |                                 |
| EC50/48h   | 69 mg/l (daphnia)               |
| LC50/96h   | 191 mg/l (fish)                 |
| <b>63225-53-6 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate</b>                       |                                 |
| EC50/72h   | 5.98 mg/l (algae)               |
| LC50/96h   | 2.52 mg/l (fish)                |
| NOEC / 72h   | 1.04 mg/l (algae)               |
| <b>40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate</b> |                                 |
| EC50/48h   | 158.3 mg/l (daphnia) (OECD 202) |
| ErC50 / 72 h   | 25.7 mg/l (algae) (OECD 201)    |

· **12.2 Persistence and degradability**

|  |   |
|--|---|
| <b>40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate</b> |   |
| Biodegradation   | 32.2 % (nd) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D) |

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

- Avoid transfer into the environment.
- Do not allow product to reach ground water, water bodies or sewage system.
- Danger to drinking water if even small quantities leak into soil.

· **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

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**SECTION 13: Disposal considerations**

· **13.1 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.

· **European waste catalogue**

18 01 06\* | chemicals consisting of or containing hazardous substances

· **Uncleaned packagings:**

· **Recommendation:**

Disposal must be made according to official regulations.

Non contaminated packagings can be used for recycling.

**SECTION 14: Transport information**

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1247

· **14.2 UN proper shipping name**

· **ADR**

1247 METHYL METHACRYLATE  
MONOMER, STABILIZED solution

· **IMDG, IATA**

METHYL METHACRYLATE MONOMER,  
STABILIZED solution

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**  
· **Label**

3 (F1) Flammable liquids.  
3

· **IMDG, IATA**



· **Class**  
· **Label**

3 Flammable liquids.  
3

· **14.4 Packing group**

· **ADR, IMDG, IATA**

II

· **14.5 Environmental hazards:**

· **Marine pollutant:**

No

· **14.6 Special precautions for user**

· **Kemler Number:**

Warning: Flammable liquids.

· **EMS Number:**

33  
F-E,S-E

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|  |   |
|--|---|
| · <b>Stowage Category</b>  | B   |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.   |
| · <b>Transport/Additional information:</b>                                       | -   |
| · <b>ADR</b>   |   |
| · Limited quantities (LQ)  | 1L  |
| · Excepted quantities (EQ)   | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>Transport category</b>  | 2   |
| · <b>Tunnel restriction code</b>   | D/E   |
| · <b>IMDG</b>  |   |
| · Limited quantities (LQ)  | 1L  |
| · Excepted quantities (EQ)   | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>UN "Model Regulation":</b>  | UN 1247 METHYL METHACRYLATE MONOMER, 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**
    - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
    - **Seveso category P5c** FLAMMABLE LIQUIDS
    - **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
    - **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **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.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H361 Suspected of damaging fertility or the unborn child.

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H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

**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 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 Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (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 - inhalation – Category 3

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**