



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

Printing date 02.08.2022

Version number 4 (replaces version 3)

Revision: 02.08.2022

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

· **1.1 Product identifier**

· Trade name: **Paladent 20 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 prosthesis

· **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.

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

STOT SE 3 H335 May cause respiratory irritation.

· **2.2 Label elements**

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

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

· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

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

methyl methacrylate

1,4-butandiol dimethacrylate

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves / eye protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

· **2.3 Other hazards -**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

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

· **3.2 Mixtures**

· **Description:** Product based on methacrylates

· **Dangerous components:**

|                                     |   |        |
|-------------------------------------|---|--------|
| CAS: 80-62-6<br>EINECS: 201-297-1   | methyl methacrylate<br>Flam. Liq. 2, H225<br>Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335 | >90%   |
| CAS: 2082-81-7<br>EINECS: 218-218-1 | 1,4-butandioldimethacrylate<br>Skin Sens. 1B, H317  | ≥1-≤5% |
| CAS: 99-85-4<br>EINECS: 202-794-6   | p-Mentha-1,4-diene<br>Flam. Liq. 3, H226<br>Repr. 2, H361<br>Aquatic Chronic 2, H411                  | <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. Then consult doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

· **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:** No special measures required.

· **Additional information** -

**SECTION 6: Accidental release measures**

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Avoid contact with eyes and skin.

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- **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).  
Do not flush with water or aqueous cleansing agents  
Send for recovery or disposal in suitable containers.
- **6.4 Reference to other sections**  
See Section 13 for information on disposal.  
See Section 8 for information on personal protection equipment.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Keep containers tightly sealed.
  - **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 cool (not above 25 °C).  
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**

· **8.1 Control parameters**

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

**80-62-6 methyl methacrylate**

|                        |  |
|------------------------|--|
| WEL (Great Britain)    | Short-term value: 416 mg/m <sup>3</sup> , 100 ppm<br>Long-term value: 208 mg/m <sup>3</sup> , 50 ppm |
| IOELV (European Union) | Short-term value: 100 ppm<br>Long-term value: 50 ppm   |

· **DNELs**

**80-62-6 methyl methacrylate**

|            |   |                                       |
|------------|---|---------------------------------------|
| Oral       | general population, long term, systemic | 8.2 mg/Kg (not defined)               |
| Dermal     | worker industrial, long term, systemic  | 13.67 mg/Kg/d (not defined)           |
|            | general population, long term, systemic | 8.2 mg/Kg/d (not defined)             |
| Inhalative | worker industrial, acute, local         | 416 mg/m <sup>3</sup> (not defined)   |
|            | worker industrial, long term, systemic  | 348.4 mg/m <sup>3</sup> (not defined) |
|            | worker industrial, long term, local     | 208 mg/m <sup>3</sup> (not defined)   |
|            | general population, acute, local        | 208 mg/m <sup>3</sup> (not defined)   |
|            | general population, long term, systemic | 74.3 mg/m <sup>3</sup> (not defined)  |

**2082-81-7 1,4-butandioldimethacrylate**

|        |   |                           |
|--------|---|---------------------------|
| Oral   | general population, long term, systemic | 2.5 mg/Kg (not defined)   |
| Dermal | worker industrial, long term, systemic  | 4.2 mg/Kg/d (not defined) |
|        | general population, long term, systemic | 2.5 mg/Kg/d (not defined) |

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|                   |   |                                 |
|-------------------|---|---------------------------------|
| <i>Inhalative</i> | <i>worker professional, long term, systemic</i> | <i>14.5 mg/m3 (not defined)</i> |
|                   | <i>general population, long term, systemic</i>  | <i>4.3 mg/m3 (not defined)</i>  |

**· PNECs**

**80-62-6 methyl methacrylate**

|   |                                  |
|---|----------------------------------|
| <i>freshwater</i>                         | <i>0.94 mg/l (not defined)</i>   |
| <i>marine water</i>                       | <i>0.094 mg/l (not defined)</i>  |
| <i>sewage treatment plant</i>             | <i>10 mg/l (not defined)</i>     |
| <i>sediment, dry weight, freshwater</i>   | <i>10.2 mg/Kg (not defined)</i>  |
| <i>sediment, dry weight, marine water</i> | <i>0.102 mg/Kg (not defined)</i> |
| <i>soil, dry weight</i>                   | <i>1.48 mg/Kg (not defined)</i>  |

**2082-81-7 1,4-butandioldimethacrylate**

|   |                                  |
|---|----------------------------------|
| <i>freshwater</i>                         | <i>0.043 mg/l (not defined)</i>  |
| <i>marine water</i>                       | <i>0.004 mg/l (not defined)</i>  |
| <i>sewage treatment plant</i>             | <i>2 mg/l (not defined)</i>      |
| <i>sediment, dry weight, freshwater</i>   | <i>3.12 mg/Kg (not defined)</i>  |
| <i>sediment, dry weight, marine water</i> | <i>0.312 mg/Kg (not defined)</i> |
| <i>soil, dry weight</i>                   | <i>0.573 mg/Kg (not defined)</i> |

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

**· 8.2 Exposure controls**

**· Appropriate engineering controls** No further data; see item 7.

**· Individual protection measures, such as 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).*

**· Hand protection**

*PVA gloves*

*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*

*Nitrile rubber, NBR*

**· Eye/face protection** *Tightly sealed safety glasses.*

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· **Body protection:** Light weight protective clothing

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**SECTION 9: Physical and chemical properties**

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

· **General Information**

|   |                                      |
|---|--------------------------------------|
| · <b>Physical state</b>   | Fluid                                |
| · <b>Colour:</b>  | Colourless                           |
| · <b>Smell:</b>   | Ester-like                           |
| · <b>Odour threshold:</b>   | Not determined.                      |
| · <b>Melting point/freezing point:</b>                            | -48 °C                               |
| · <b>Boiling point or initial boiling point and boiling range</b> | 100 °C (80-62-6 methyl methacrylate) |
| · <b>Flammability</b>   | Not applicable.                      |
| · <b>Lower and upper explosion limit</b>                          |                                      |
| · <b>Lower:</b>   | 2.1 Vol %                            |
| · <b>Upper:</b>   | 12.5 Vol %                           |
| · <b>Flash point:</b>   | 10 °C (80-62-6 methyl methacrylate)  |
| · <b>Ignition temperature:</b>                                    | 430.0 °C                             |
| · <b>Decomposition temperature:</b>                               | Not determined.                      |

· **SAPT**

Paladent 20 liquid > 60 °C

· **SADT**

|  |                                    |
|--|------------------------------------|
| · <b>pH</b>  | Mixture is non-soluble (in water). |
| · <b>Viscosity:</b>  |                                    |
| · <b>Kinematic viscosity</b>                               | Not determined.                    |
| · <b>dynamic at 20 °C:</b>                                 | 1 mPas                             |
| · <b>Solubility</b>  |                                    |
| · <b>Water at 20 °C:</b>                                   | 15.9 g/l                           |
| · <b>Partition coefficient n-octanol/water (log value)</b> | Not determined.                    |
| · <b>Steam pressure at 20 °C:</b>                          | 47 hPa                             |
| · <b>Density and/or relative density</b>                   |                                    |
| · <b>Density at 20 °C</b>                                  | 0.940 g/cm <sup>3</sup>            |
| · <b>Relative density</b>                                  | Not determined.                    |
| · <b>Vapour density</b>                                    | Not determined.                    |

· **9.2 Other information**

No further relevant information available.

· **Appearance:**

· **Form:** Liquid

· **Important information on protection of health and environment, and on safety.**

· **Self-inflammability:** Product is not selfigniting.  
· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

· **Change in condition**

· **Evaporation rate** Not determined.

· **Information with regard to physical hazard classes**

|                          |      |
|--------------------------|------|
| · <b>Explosives</b>      | Void |
| · <b>Flammable gases</b> | Void |
| · <b>Aerosols</b>        | Void |
| · <b>Oxidising gases</b> | Void |

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|  |                                     |
|--|-------------------------------------|
| · <b>Gases under pressure</b>  | Void                                |
| · <b>Flammable liquids</b>   | Highly flammable liquid and vapour. |
| · <b>Flammable solids</b>  | Void                                |
| · <b>Self-reactive substances and mixtures</b>                                     | Void                                |
| · <b>Pyrophoric liquids</b>  | Void                                |
| · <b>Pyrophoric solids</b>   | Void                                |
| · <b>Self-heating substances and mixtures</b>                                      | Void                                |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void                                |
| · <b>Oxidising liquids</b>   | Void                                |
| · <b>Oxidising solids</b>  | Void                                |
| · <b>Organic peroxides</b>   | Void                                |
| · <b>Corrosive to metals</b>   | Void                                |
| · <b>Desensitised explosives</b>   | 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 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:**  
If stored longer than recommended and/or above recommended temperature, product may polymerize generating heat.

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.

· **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)                      |

**2082-81-7 1,4-butandioldimethacrylate**

|      |      |                               |
|------|------|-------------------------------|
| Oral | LD50 | 10,066 mg/kg (rat) (OECD 401) |
|------|------|-------------------------------|

**99-85-4 p-Mentha-1,4-diene**

|        |      |                               |
|--------|------|-------------------------------|
| Oral   | LD50 | >2,000 mg/kg (rat) (OECD 423) |
| Dermal | LD50 | >2,000 mg/kg (rat) (OECD 402) |

- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.

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- **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.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**80-62-6 methyl 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)         |
| 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)          |

**2082-81-7 1,4-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)   |
| NOEC / 72h   | 2.11 mg/l (algae) (OECD 201)   |
| NOEC / 48h   | 25 mg/l (fish)                 |
| ErC10/72h    | 4.35 mg/L (algae) (OECD 201)   |

**99-85-4 p-Mentha-1,4-diene**

|          |                                  |
|----------|----------------------------------|
| EC50/72h | >10.82 mg/l (algae) (OECD 201)   |
| EC50/48h | 10.189 mg/l (daphnia) (OECD 202) |
| LC50/96h | 2.792 mg/l (fish) (OECD 203)     |

· **12.2 Persistence and degradability**

**80-62-6 methyl methacrylate**

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

**2082-81-7 1,4-butandioldimethacrylate**

Biodegradation 84 % /28d (not defined) (OECD 310)

**99-85-4 p-Mentha-1,4-diene**

Biodegradation 27 % /28d (not defined) (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.
- **12.5 Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

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· **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

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

**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.

· **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 or ID 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**

3 (F1) Flammable liquids.

· **Label**

3

· **IMDG, IATA**



· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**

· **ADR, IMDG, IATA**

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|   |   |
|---|---|
| · <b>14.5 Environmental hazards:</b>                                  |   |
| · <b>Marine pollutant:</b>  | No  |
| · <b>14.6 Special precautions for user</b>                            | Warning: Flammable liquids.   |
| · <b>Kemler Number:</b>   | 339   |
| · <b>EMS Number:</b>  | F-E,S-D   |
| · <b>Stowage Category</b>   | B   |
| · <b>Stowage Code</b>   | SW2 Clear of living quarters.   |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.   |
| · <b>Transport/Additional information:</b>                            | -   |
| · <b>ADR</b>  |   |
| · <b>Limited quantities (LQ)</b>                                      | 1L  |
| · <b>Excepted quantities (EQ)</b>                                     | Code: E2<br>Maximum net quantity per inner packaging:<br>30 ml<br>Maximum net quantity per outer packaging:<br>500 ml |
| · <b>Transport category</b>   | 2   |
| · <b>Tunnel restriction code</b>                                      | D/E   |
| · <b>IMDG</b>   |   |
| · <b>Limited quantities (LQ)</b>                                      | 1L  |
| · <b>Excepted quantities (EQ)</b>                                     | Code: E2<br>Maximum net quantity per inner packaging:<br>30 ml<br>Maximum net quantity per outer packaging:<br>500 ml |
| · <b>UN "Model Regulation":</b>                                       | UN 1247 METHYL METHACRYLATE<br>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
    - **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.
- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H361 Suspected of damaging fertility or the unborn child.

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*H411 Toxic to aquatic life with long lasting effects.*

**Abbreviations and acronyms:**

- SADT: Self Accelerating Decomposition Temperature
  - SAPT: Self Accelerating Polymerisation Temperature
  - 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
  - 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 (UK REACH)
  - PNEC: Predicted No-Effect Concentration (UK 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
  - Flam. Liq. 3: Flammable liquids – Category 3
  - Skin Irrit. 2: Skin corrosion/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 Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- \* Data compared to the previous version altered.**

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