



**Safety Data Sheet
according to WHS Regulations**

Printing date 02.08.2023

Version number 2

Revision: 02.08.2023

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· **Product identifier**

· **Trade name: PalaXtreme Liquid**

· **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

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

· **Manufacturer/Supplier:**
Kulzer Australia Pty Ltd
Unit 20, 53 Lorraine St
PEAKHURST NSW 2210
Australia

Tel: +61 (02) 9153 0311

· **Informing department:** see above

· **Emergency telephone number:**
Poison Information Number: Australia 13 11 26 & New Zealand 0800 764 766

2 Hazard(s) Identification

· **Classification of the substance or mixture**

Flam. Liq. 2

H225 Highly flammable liquid and vapour.

Skin Irrit. 2

H315 Causes skin irritation.

Serious eye damage/irritation – Category 2A

H319 Causes serious eye 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 labelled according to the Globally Harmonised System (GHS).

· **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**

Highly flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

· **Precautionary statements**

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

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

Wear protective gloves / eye protection.

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Wear protective clothing.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· **Other hazards -**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description: -**

· **Dangerous components:**

80-62-6	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	75-90%
63225-53-6	2-[[[(butylamino)carbonyl]oxy]ethyl acrylate Acute Tox. 3, H331 Skin Sens. 1, H317	5-10%
97553-94-1	Aliphatic urethane acrylate Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319	0-5%
40220-08-4	(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate Eye Dam. 1, H318 Skin Sens. 1B, H317	≥1-<3%
63393-96-4	Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides Acute Tox. 3, H301 Repr. 2, H361 Skin Corr. 1C, H314; Eye Dam. 1, H318 Flam. Liq. 4, H227	<1%

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

4 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.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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5 Fire Fighting Measures

- **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.
- **Protective equipment:**
Wear self-contained breathing apparatus.
Wear full protective suit.
- **Additional information -**

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Prevent material from reaching sewage system, holes and cellars.
- **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.
- **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.
-

7 Handling and Storage

- **Handling**
 - **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.
- **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.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Components with critical values that require monitoring at the workplace:**

80-62-6 methyl methacrylate

WES	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm Sen
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· 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)
Inhalative	general population, long term, systemic	8.2 mg/Kg/d (not defined)
	worker industrial, acute, local	416 mg/m ³ (not defined)
	worker industrial, long term, systemic	348.4 mg/m ³ (not defined)
	worker industrial, long term, local	208 mg/m ³ (not defined)
	general population, acute, local	208 mg/m ³ (not defined)
	general population, long term, systemic	74.3 mg/m ³ (not defined)

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

Oral	general population, long term, systemic	1 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	2 mg/Kg/d (not defined)
Inhalative	general population, long term, systemic	1 mg/Kg/d (not defined)
	worker industrial, long term, systemic	9.9 mg/m ³ (not defined)
	general population, long term, systemic	1.7 mg/m ³ (not defined)

40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate

Oral	general population, long term, systemic	0.083 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	2.3 mg/Kg/d (not defined)
Inhalative	general population, long term, systemic	0.83 mg/Kg/d (not defined)
	worker industrial, long term, systemic	1.65 mg/m ³ (not defined)
	general population, long term, systemic	0.29 mg/m ³ (not defined)

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

Inhalative	worker professional, long term, systemic	0.42 mg/m ³ (not defined)
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· PNECs

80-62-6 methyl methacrylate

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

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

freshwater	0.003 mg/l (not defined)
marine water	0 mg/l (not defined)
sewage treatment plant	3.54 mg/l (not defined)
sediment, dry weight, freshwater	0.024 mg/Kg (not defined)
sediment, dry weight, marine water	0.002 mg/Kg (not defined)
soil, dry weight	0.003 mg/Kg (not defined)

40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate

freshwater	0.00943 mg/l (not defined)
marine water	0.000943 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	0.62 mg/Kg (not defined)

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sediment, dry weight, marine water	0.062 mg/Kg (not defined)
soil, dry weight	0.118 mg/Kg (not defined)
63393-96-4 Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides	
freshwater	0.00015 mg/l (not defined)
marine water	0.00000002 mg/l (not defined)
sewage treatment plant	0.44 mg/l (not defined)
sediment, dry weight, freshwater	0.00063 mg/Kg (not defined)
sediment, dry weight, marine water	0.00000006 mg/Kg (not defined)
soil, dry weight	0.00000004 mg/Kg (not defined)

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

· **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).

· **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.

9 Physical and Chemical Properties

· **General Information**

· **Appearance:**

· **Form:**

Fluid

· **Colour:**

Colourless

· **Smell:**

Ester-like

· **Odour threshold:**

Not determined.

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- **pH-value:** Mixture is non-soluble (in water).
- **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.
- **Auto-ignition temperature:** 430 °C
- **Decomposition temperature:** Not determined.

· **SAPT**

PalaXtreme Liquid > 60 °C

- **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
- **Density** Not determined
- **Relative density** Not determined.
- **Vapour 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:** Not determined.
- **kinematic:** Not determined.
- **Solvent content:**
- **Water:** 0.1 %
- **Solids content:** 0.1 %

· **Other information** No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **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** 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)

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

- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation** Slight irritation possible
- **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**

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

- **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.

12 Ecological Information

· **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)
63225-53-6 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate	
EC50/72h	5.98 mg/l (algae)
LC50/96h	2.52 mg/l (fish)
NOEC / 72h	1.04 mg/l (algae)
40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate	
EC50/48h	158.3 mg/l (daphnia) (OECD 202)
LC50/96h	9.43 mg/l (fish) (OECD 203)
ErC50 / 72 h	25.7 mg/l (algae) (OECD 201)

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ErC10/72h	12.9 mg/L (algae) (OECD 201)
63393-96-4 Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides	
EC50/48h	0.16 mg/l (daphnia) (OECD 202)
LC50/96h	0.15 mg/l (fish) (OECD 203)
ErC50 / 72 h	0.29 mg/l (algae) (OECD 201)
ErC10/72h	0.138 mg/L (algae) (OECD 201)
· Persistence and degradability	
80-62-6 methyl methacrylate	
Biodegradation	94 % /14d (not defined) (OECD 301C)
40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate	
Biodegradation	14.5-19.7 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
63393-96-4 Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides	
Biodegradation	10-<20 % /60d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

- Behaviour in environmental systems:**
 - Bioaccumulative potential** No further relevant information available.
 - Mobility in soil** No further relevant information available.
- Additional ecological information:**
 - General notes:**
 - Do not allow product to reach ground water, water bodies or sewage system.
 - Avoid transfer into the environment.
 - Danger to drinking water if even small quantities leak into soil.
- 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.

14 Transport information

- UN-Number**
 - ADG, IMDG, IATA** UN1247
- UN proper shipping name**
 - ADG** 1247 METHYL METHACRYLATE MONOMER, STABILIZED solution
 - IMDG, IATA** METHYL METHACRYLATE MONOMER, STABILIZED solution

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· **Transport hazard class(es)**

· **ADG**



· **Class**
· **Label**

3 (F1) Flammable liquids.
3

· **IMDG, IATA**



· **Class**
· **Label**

3 Flammable liquids.
3

· **Packing group**

· **ADG, IMDG, IATA**

II

· **Environmental hazards:**

· **Marine pollutant:**

No

· **Special precautions for user**

Warning: Flammable liquids.

· **Kemler Number:**

33

· **EMS Number:**

F-E, S-E

· **Stowage Category**

B

· **Transport in bulk according to Annex II of
Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

-

· **ADG**

· **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

· **Transport category**

2

· **Tunnel restriction code**

D/E

· **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 1247 METHYL METHACRYLATE MONOMER,
STABILIZED SOLUTION, 3, II

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15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

80-62-6	methyl methacrylate
63225-53-6	2-[[[(butylamino)carbonyl]oxy]ethyl acrylate
40220-08-4	(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate
147315-50-2	2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5-((hexyl)oxy)-phenol
63393-96-4	Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides
108-88-3	toluene
3077-12-1	2,2'-[(4-methylphenyl)imino]bisethanol
7732-18-5	water, distilled, conductivity or of similar purity
99-85-4	p-Mentha-1,4-diene
111-87-5	1-Octanol
112-30-1	1-Decanol
110-16-7	maleic acid
10125-13-0	copper(2+) chloride hydrate (1:2:2)

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· 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

· National regulations

The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.

· Other regulations, limitations and prohibitive regulations

· AICS - Australian Inventory of Chemical Substances

80-62-6	methyl methacrylate
63225-53-6	2-[[[(butylamino)carbonyl]oxy]ethyl acrylate
40220-08-4	(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate
147315-50-2	2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5-((hexyl)oxy)-phenol
63393-96-4	Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides
108-88-3	toluene
3077-12-1	2,2'-[(4-methylphenyl)imino]bisethanol
7732-18-5	water, distilled, conductivity or of similar purity
99-85-4	p-Mentha-1,4-diene
111-87-5	1-Octanol
112-30-1	1-Decanol
110-16-7	maleic acid
10125-13-0	copper(2+) chloride hydrate (1:2:2)

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

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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.
- H227 Combustible liquid.
- 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.

· **Abbreviations and acronyms:**

- 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
- 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
- Flam. Liq. 4: Flammable liquids – Category 4
- Acute Tox. 3: Acute toxicity – 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
- Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
- 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

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