



**Safety Data Sheet  
according to WHS Regulations**

Date of issue: 18.03.2025

Version number 5

Revision: 18.03.2025

Hazardous according to criteria of Australian Safety and Compensation Council.

## 1 Identification

· **Other means of identification**

· Trade name: **Charisma**

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

· **Application of the substance / the mixture** Dental filling material

· **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**

Skin sensitisation – Category 1 H317 May cause an allergic skin reaction.

· **Label elements**

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

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

triethylen glycol dimethacrylate ( $\geq 1$ - $\leq 5$  %)

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate  
( $\geq 1$ - $\leq 5$  %)

· **Hazard statements**

May cause an allergic skin reaction.

· **Precautionary statements**

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

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

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

Specific treatment (see on this label).

Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Other hazards -**
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

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**3 Composition and Information on Ingredients**

- **Chemical characterisation: Mixtures**
- **Description:** Product based on methacrylates

| · <b>Dangerous components:</b> |  |        |
|--------------------------------|--|--------|
| 109-16-0                       | triethylen glycol dimethacrylate<br>Skin sensitisation – Category 1B, H317   | ≥1-≤5% |
| 72869-86-4                     | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate<br>Skin sensitisation – Category 1B, H317 | ≥1-≤5% |

- **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.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **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.

**5 Fire Fighting Measures**

- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.
- **Additional information -**

**6 Accidental Release Measures**

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

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**Reference to other sections**

See Section 13 for information on disposal.  
See Section 8 for information on personal protection equipment.

**7 Handling and Storage**

**Handling**

- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.

**Storage**

- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store cool (not above 25 °C).
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls and personal protection**

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

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.  
Not required.

**DNELs**

**109-16-0 triethylen glycol dimethacrylate**

|            |   |                            |
|------------|---|----------------------------|
| Oral       | general population, long term, systemic | 8.33 mg/Kg (not defined)   |
| Dermal     | worker industrial, long term, systemic  | 13.9 mg/Kg/d (not defined) |
|            | general population, long term, systemic | 8.33 mg/Kg/d (not defined) |
| Inhalative | worker industrial, long term, systemic  | 48.5 mg/m3 (not defined)   |
|            | general population, long term, systemic | 14.5 mg/m3 (not defined)   |

**72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazaheptadecane-1,16-diyl bismethacrylate**

|            |   |                           |
|------------|---|---------------------------|
| Oral       | general population, long term, systemic | 0.3 mg/Kg (not defined)   |
| Dermal     | worker industrial, long term, systemic  | 1.3 mg/Kg/d (not defined) |
|            | general population, long term, systemic | 0.7 mg/Kg/d (not defined) |
| Inhalative | worker industrial, long term, systemic  | 3.3 mg/m3 (not defined)   |
|            | general population, long term, systemic | 0.6 mg/m3 (not defined)   |

**79-41-4 methacrylic acid**

|            |  |                            |
|------------|--|----------------------------|
| Dermal     | worker industrial, long term, systemic   | 4.25 mg/Kg/d (not defined) |
|            | general population, long term, systemic  | 2.55 mg/Kg/d (not defined) |
| Inhalative | worker industrial, long term, local      | 88 mg/m3 (not defined)     |
|            | worker professional, long term, systemic | 29.6 mg/m3 (not defined)   |
|            | general population, long term, systemic  | 6.3 mg/m3 (not defined)    |

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|                                      |                                      |
|--------------------------------------|--------------------------------------|
| general population, long term, local | 6.55 mg/m <sup>3</sup> (not defined) |
|--------------------------------------|--------------------------------------|

**· PNECs**

**109-16-0 triethylen glycol dimethacrylate**

|                                    |                           |
|------------------------------------|---------------------------|
| freshwater                         | 0.016 mg/l (not defined)  |
| marine water                       | 0.002 mg/l (not defined)  |
| sewage treatment plant             | 1.7 mg/l (not defined)    |
| sediment, dry weight, freshwater   | 0.185 mg/Kg (not defined) |
| sediment, dry weight, marine water | 0.018 mg/Kg (not defined) |
| soil, dry weight                   | 0.027 mg/Kg (not defined) |

**72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate**

|                                    |                          |
|------------------------------------|--------------------------|
| freshwater                         | 0.01 mg/l (not defined)  |
| marine water                       | 0.001 mg/l (not defined) |
| sewage treatment plant             | 3.61 mg/l (not defined)  |
| sediment, dry weight, freshwater   | 4.56 mg/Kg (not defined) |
| sediment, dry weight, marine water | 0.46 mg/Kg (not defined) |
| soil, dry weight                   | 0.91 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** Wash hands during breaks and at the end of the work.

· **Breathing equipment:** Not required.

**· Protection of hands:**

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 protection:** not absolutely necessary

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

**9 Physical and Chemical Properties**

**· General Information**

· **Appearance:**

· **Form:**

Pasty

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|   |  |
|---|--|
| · <b>Colour:</b>                                  | Different according to colour              |
| · <b>Smell:</b>                                   | Odourless                                  |
| · <b>Odour threshold:</b>                         | Not determined.                            |
| · <b>pH-value:</b>                                | Not determined.                            |
| · <b>Change in condition</b>                      |  |
| · <b>Melting point/freezing point:</b>            | Not determined                             |
| · <b>Initial boiling point and boiling range:</b> | Not determined                             |
| · <b>Flash point:</b>                             | >100 °C                                    |
| · <b>Inflammability (solid, gaseous)</b>          | Not applicable.                            |
| · <b>Decomposition temperature:</b>               | Not determined.                            |
| · <b>Self-inflammability:</b>                     | Product is not selfigniting.               |
| · <b>Explosive properties:</b>                    | Product is not explosive.                  |
| · <b>Critical values for explosion:</b>           |  |
| · <b>Lower:</b>                                   | Not determined.                            |
| · <b>Upper:</b>                                   | Not determined.                            |
| · <b>Steam pressure:</b>                          | Not determined.                            |
| · <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>Other information</b>                        | No further relevant information available. |
| · <b>Particle characteristics</b>                 | Not applicable.                            |
| · <b>Physical state</b>                           | Liquid                                     |

## 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:**  
If stored longer than recommended and/or above recommended temperature, product may polymerize generating heat.

## 11 Toxicological Information

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

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|   |          |                              |
|---|----------|------------------------------|
| <b>· LD/LC50 values that are relevant for classification:</b>   |          |                              |
| <b>65997-18-4 frits, chemicals</b>  |          |                              |
| Oral  | LD50     | >2000 mg/kg (rat) (OECD 423) |
| Dermal  | LD50     | >2000 mg/kg (rat) (OECD 402) |
| <b>(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate</b>                       |          |                              |
| Oral  | LD50     | >5000 mg/kg (rat)            |
| <b>109-16-0 triethylen glycol dimethacrylate</b>  |          |                              |
| Oral  | LD50     | 8300 mg/kg (rat)             |
| Dermal  | LD50     | >2000 mg/kg (mouse)          |
| <b>72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diy l bismethacrylate</b> |          |                              |
| Oral  | LD50     | >5000 mg/kg (rat) (OECD 401) |
| Dermal  | LD50     | >2000 mg/kg (rat) (OECD 402) |
| <b>79-41-4 methacrylic acid</b>   |          |                              |
| Oral  | LD50     | 1320 mg/kg (rat) (OECD 401)  |
| Dermal  | LD50     | 500-1000 mg/kg (rab)         |
| Inhalative  | LC50/4 h | 7.1 mg/l (rat) (OECD 403)    |

**· Primary irritant effect:**

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **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**

|                                    |                      |
|------------------------------------|----------------------|
| <b>· Aquatic toxicity:</b>         |                      |
| <b>65997-18-4 frits, chemicals</b> |                      |
| LC50/96h                           | ≥3.09 mg/l (fish)    |
| ErC50 / 72 h                       | ≥2.4 mg/l (algae)    |
| <b>65997-17-3 Glaspulver</b>       |                      |
| EC50/72h                           | >1000 mg/l (daphnia) |
| LC50/96h                           | >1000 mg/l (fish)    |
| ErC50 / 72 h                       | >1000 mg/l (algae)   |
| NOEC / 72h                         | 1000 mg/l (algae)    |
|                                    | 1000 mg/l (daphnia)  |

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**(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate**

LC50/96h >100 mg/l (fish) (OECD 203)

**109-16-0 triethylen glycol dimethacrylate**

EC50/21d 51.9 mg/L (daphnia) (OECD 211)

LC50/96h 16.4 mg/l (fish) (OECD 203)

NOEC / 21d 32 mg/l (daphnia) (OECD 211)

ErC50 / 72 h >100 mg/l (algae) (OECD 201)

NOEC / 72h 18.6 mg/l (algae) (OECD 201)

EbC50 / 72h 72.8 mg/l (algae) (OECD 201)

**72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahehexadecane-1,16-diyl bismethacrylate**

EC50/48h >1.2 mg/l (daphnia) (OECD 202)

LC50/96h 10.1 mg/l (fish) (OECD 203)

ErC50 / 72 h >0.68 mg/l (algae) (OECD 201)

NOEC / 72h 0.21 mg/l (algae) (OECD 201)

**79-41-4 methacrylic acid**

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)

**· Persistence and degradability**

**(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate**

Biodegradation 21 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)

**109-16-0 triethylen glycol dimethacrylate**

Biodegradation 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

**72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahehexadecane-1,16-diyl bismethacrylate**

Biodegradation 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

**79-41-4 methacrylic acid**

Biodegradation 86 % /28d (not defined) (OECD 301D)

**· 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 undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

**· Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
  - **Recommendation**  
Small quantities can be polymerized with the matching system component(s) and the cured solid material can be disposed of with the regular garbage.  
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.

**14 Transport information**

|   |                 |
|---|-----------------|
| · <b>UN-Number</b><br>· ADG, ADN, IMDG, IATA                                | Void            |
| · <b>UN proper shipping name</b><br>· ADG, ADN, IMDG, IATA                  | Void            |
| · <b>Transport hazard class(es)</b><br>· ADG, ADN, IMDG, IATA<br>· Class    | Void            |
| · <b>Packing group</b><br>· ADG, IMDG, IATA                                 | Void            |
| · <b>Environmental hazards:</b><br>· <b>Marine pollutant:</b>               | No              |
| · <b>Special precautions for user</b>                                       | Not applicable. |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>Transport/Additional information:</b>                                  | -               |
| · <b>UN "Model Regulation":</b>   | Void            |

**15 Regulatory information**

|   |                  |
|---|------------------|
| · <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> |                  |
| · <b>Australian Inventory of Industrial Chemicals</b>   |                  |
| 65997-17-3  | Glaspulver       |
| 65997-18-4  | frits, chemicals |

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|             |  |
|-------------|--|
|             | (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate             |
| 68476-25-5  | Feldspar-group minerals  |
| 109-16-0    | triethylen glycol dimethacrylate   |
| 72869-86-4  | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahehexadecane-1,16-diyl bismethacrylate |
| 2530-85-0   | 3-trimethoxysilylpropyl methacrylate   |
| 7732-18-5   | water, distilled, conductivity or of similar purity  |
| 112945-52-5 | Amorphous silica   |
| 7732-18-5   | water, distilled, conductivity or of similar purity  |
| 14808-60-7  | Quartz (SiO <sub>2</sub> )   |
| 4948-15-6   | C.I. Pigment Red 149   |
| 68186-88-9  | Zinc iron chromite brown spinel  |
| 68186-91-4  | Kupfer-, Chrom-, Eisenoxid-Spinell   |
| 13463-67-7  | titanium dioxide   |
| 131-57-7    | Oxybenzone   |
| 7775-14-6   | sodium dithionite  |
| 21245-02-3  | 2-ethylhexyl 4-(dimethylamino)benzoate   |
| 10373-78-1  | dl-bornane-2,3-dione   |
| 80-62-6     | methyl methacrylate  |
| 84434-11-7  | ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate  |
| 64-19-7     | acetic acid  |
| 128-37-0    | 2,6-di-tert-butyl-p-cresol   |
| 3006-82-4   | tert-butyl peroxy(2-ethylhexanoate)  |
| 77-99-6     | propylidynetrimehanol  |
| 2440-22-4   | 2-(2H-Benzotriazol-2-yl) -p-cresol   |
| 75980-60-8  | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide  |

**· 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.

**· Regulation (EU) No 649/2012**

None of the ingredients are included.

**· 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**

|            |                  |
|------------|------------------|
| 65997-17-3 | Glaspulver       |
| 65997-18-4 | frits, chemicals |

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|             |  |
|-------------|--|
|             | (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate             |
| 68476-25-5  | Feldspar-group minerals  |
| 109-16-0    | triethylen glycol dimethacrylate   |
| 72869-86-4  | 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahehexadecane-1,16-diyl bismethacrylate |
| 2530-85-0   | 3-trimethoxysilylpropyl methacrylate   |
| 7732-18-5   | water, distilled, conductivity or of similar purity  |
| 112945-52-5 | Amorphous silica   |
| 7732-18-5   | water, distilled, conductivity or of similar purity  |
| 14808-60-7  | Quartz (SiO <sub>2</sub> )   |
| 4948-15-6   | C.I. Pigment Red 149   |
| 68186-88-9  | Zinc iron chromite brown spinel  |
| 68186-91-4  | Kupfer-, Chrom-, Eisenoxid-Spinell   |
|             | Chrome Antimony Titanate   |
| 13463-67-7  | titanium dioxide   |
| 131-57-7    | Oxybenzone   |
| 7775-14-6   | sodium dithionite  |
| 21245-02-3  | 2-ethylhexyl 4-(dimethylamino)benzoate   |
| 10373-78-1  | dl-bornane-2,3-dione   |
| 80-62-6     | methyl methacrylate  |
|             | Diethyl-(2,5-dihydroxyterephthalat)  |
| 84434-11-7  | ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate  |
| 64-19-7     | acetic acid  |
| 128-37-0    | 2,6-di-tert-butyl-p-cresol   |
| 3006-82-4   | tert-butyl peroxy(2-ethylhexanoate)  |
| 77-99-6     | propylidynetrimethanol   |
| 2440-22-4   | 2-(2H-Benzotriazol-2-yl)-p-cresol  |
| 75980-60-8  | Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide  |

· **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**

H317 May cause an allergic skin reaction.

· **Abbreviations and acronyms:**

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)

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**Safety Data Sheet  
according to WHS Regulations**

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**Trade name: Charisma**

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*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*  
*Skin sensitisation – Category 1: Skin sensitisation – Category 1*  
*Skin sensitisation – Category 1B: Skin sensitisation – Category 1B*  
**\* Data compared to the previous version altered.**

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