EU safety data sheet

Trade name: VarseoSmile Crown plus (REF 41107)
Product no.: REF 41107
Current version : 6.0.0, issued: 21.10.2020
Replaced version: 5.0.0, issued: 21.09.2020
Region: GB

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

1.1 Product identifier
   - Trade name
     - VarseoSmile Crown plus (REF 41107)
     - VarseoSmile Crown plus A1 (REF 41107 & 41117)
     - VarseoSmile Crown plus A2 (REF 41108 & 41118)
     - VarseoSmile Crown plus A3 (REF 41109 & 41119)
     - VarseoSmile Crown plus B1 (REF 41110 & 41120)
     - VarseoSmile Crown plus B3 (REF 41111 & 41121)
     - VarseoSmile Crown plus C2 (REF 41112 & 41122)
     - VarseoSmile Crown plus D3 (REF 41113 & 41123)

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Relevant identified uses of the substance or mixture
     - Resin for 3D printing of permanent single crowns, inlays, onlays and veneers
   - Uses advised against
     - No data available.

1.3 Details of the supplier of the safety data sheet
   - Address
     - BEGO Bremer Goldschlägerei
     - Wilh. Herbst GmbH & Co. KG
     - Wilhelm-Herbst-Str. 1
     - 28359 Bremen
   - Telephone no. +49/ 421/ 2028 – 0
   - Fax no. +49/ 421/ 2028 – 115
   - e-mail msds@bego.com
   - Information provided by / telephone
     - Research & Development Department - Materials, alloys and ceramics; +49/ 421/ 2028 – 130 (Chief Development Officer alloys)
     - Advice on Safety Data Sheet
       - msds@bego.com

1.4 Emergency telephone number
   - For medical advice (in German and English):
     - +49 (0)551 192 40 (Giftinformationszentrum Nord)

**SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture
   - Classification in accordance with Regulation (EC) No 1272/2008 (CLP)
     - Aquatic Chronic 4; H413
     - Eye Irrit. 2; H319
     - Skin Irrit. 2; H315
     - Skin Sens. 1; H317
     - STOT SE 3; H335
   - Classification information
     - This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:
     - Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP
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Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms

GHS07

Signal word

Warning

Hazardous component(s) to be indicated on label:
Esterification products of 4,4’-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid

Hazard statement(s)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H413 May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTER/doctor if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

PBT assessment
No data available.
vPvB assessment
No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

<table>
<thead>
<tr>
<th>No</th>
<th>Substance name</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CAS / EC / Index / REACH no</td>
<td>Classification (EC) 1272/2008 (CLP)</td>
</tr>
<tr>
<td>1</td>
<td>Esterification products of 4,4’-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid</td>
<td>&gt;= 50.00 - &lt; 75.00 wt%</td>
</tr>
<tr>
<td></td>
<td>41637-38-1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>-</td>
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</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td>Skin Irrit. 2; H315</td>
</tr>
<tr>
<td>2</td>
<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>pls. refer to footnote (1)</td>
</tr>
<tr>
<td></td>
<td>75980-60-8</td>
<td>Aquatic Chronic 2; H411</td>
</tr>
<tr>
<td></td>
<td>278-355-8</td>
<td>Skin Sens. 1B; H317</td>
</tr>
<tr>
<td></td>
<td>015-203-00-X</td>
<td>Repr. 2; H361fd</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

General information
In case of allergic symptoms, especially respiratory tract related, seek medical help immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation
Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact
In case of contact with skin wash off immediately with copious amounts of water.

After eye contact
Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion
Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed
No data available.

4.3 Indication of any immediate medical attention and special treatment needed
No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide; Extinguishing powder; Water spray jet; Alcohol-resistant foam

Unsuitable extinguishing media
High power water jet

5.2 Special hazards arising from the substance or mixture
In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); Phosphorus oxides

5.3 Advice for firefighters
Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from ignition sources. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

For emergency responders
No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions
Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up
Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When collected, handle material as
6.4 Reference to other sections
No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Advice on safe handling
Provide good ventilation at the work area (local exhaust ventilation, if necessary). Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures
Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Keep away from food, drink and animal feeding stuffs. Avoid contact with eyes and skin. Provide eye wash fountain in work area.

Advice on protection against fire and explosion
Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions
Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

Requirements for storage rooms and vessels
Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products
Do not store together with: oxidizing agents

7.3 Specific end use(s)
No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
No parameters available for monitoring.

8.2 Exposure controls
Appropriate engineering controls
Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment
Respiratory protection
If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection
Safety glasses with side protection shield (EN 166)

Hand protection
Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other
Chemical-resistant work clothes.

Environmental exposure controls
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No data available.

**SECTION 9: Physical and chemical properties**

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form/Colour</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td></td>
<td>Various, depending on coloration</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>pH value</strong></td>
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</tr>
<tr>
<td><strong>Boiling point / boiling range</strong></td>
<td>Value 150 °C</td>
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<tr>
<td><strong>Melting point / melting range</strong></td>
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</tr>
<tr>
<td><strong>Decomposition point / decomposition range</strong></td>
<td>No data available</td>
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<td><strong>Flash point</strong></td>
<td>Value 110 °C</td>
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<tr>
<td><strong>Auto-ignition temperature</strong></td>
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<tr>
<td><strong>Oxidising properties</strong></td>
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</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Lower flammability or explosive limits</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Upper flammability or explosive limits</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>No data available</td>
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<tr>
<td><strong>Evaporation rate</strong></td>
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<tr>
<td><strong>Relative density</strong></td>
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</tr>
<tr>
<td><strong>Density</strong></td>
<td>Value 1.4 - 1.5 g/cm³, Reference temperature 20 °C</td>
</tr>
<tr>
<td><strong>Solubility in water</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>No data available</td>
</tr>
</tbody>
</table>
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No data available

<table>
<thead>
<tr>
<th>Partition coefficient: n-octanol/water</th>
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<tbody>
<tr>
<td>No</td>
</tr>
<tr>
<td>----</td>
</tr>
<tr>
<td>1</td>
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</table>

<table>
<thead>
<tr>
<th>log Pow</th>
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<th>Method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>23 °C</td>
<td>OECD 117</td>
<td>ECHA</td>
</tr>
</tbody>
</table>

Viscosity
No data available

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available.

10.2 Chemical stability
Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions
None, when used as directed.

10.4 Conditions to avoid
Heat, naked flames and other ignition sources.

10.5 Incompatible materials
strong oxidizing agents

10.6 Hazardous decomposition products
No hazardous decomposition products known. In case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

<table>
<thead>
<tr>
<th>Acute oral toxicity</th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
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<td>No</td>
<td>Substance name</td>
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<tr>
<td>1</td>
<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>75980-60-8</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>LD50</th>
<th>Species</th>
<th>Method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000</td>
<td>rat</td>
<td>OECD 401</td>
<td>ECHA</td>
</tr>
</tbody>
</table>

Acute dermal toxicity

<table>
<thead>
<tr>
<th>Acute dermal toxicity</th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Substance name</td>
<td>75980-60-8</td>
</tr>
<tr>
<td>1</td>
<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>75980-60-8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LD50</th>
<th>Species</th>
<th>Method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>rabbit</td>
<td>OECD 402</td>
<td>ECHA</td>
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</tbody>
</table>

Acute inhalational toxicity
No data available

Skin corrosion/irritation

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Substance name</td>
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<tr>
<td>1</td>
<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>75980-60-8</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>rabbit</td>
</tr>
</tbody>
</table>
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Source: ECHA
Evaluation: non-irritant

### Serious eye damage/irritation

<table>
<thead>
<tr>
<th>No</th>
<th>Substance name</th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>75980-60-8</td>
<td>278-355-8</td>
</tr>
</tbody>
</table>

Species: rabbit
Evaluation: ECHA

### Respiratory or skin sensitisation

<table>
<thead>
<tr>
<th>No</th>
<th>Substance name</th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>75980-60-8</td>
<td>278-355-8</td>
</tr>
</tbody>
</table>

Route of exposure: Skin
Species: mouse
Method: OECD 429
Evaluation: ECHA

### Germ cell mutagenicity

<table>
<thead>
<tr>
<th>No</th>
<th>Substance name</th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>75980-60-8</td>
<td>278-355-8</td>
</tr>
</tbody>
</table>

Source: ECHA
Evaluation/classification: Based on available data, the classification criteria are not met.

### Reproduction toxicity

<table>
<thead>
<tr>
<th>No</th>
<th>Substance name</th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>75980-60-8</td>
<td>278-355-8</td>
</tr>
</tbody>
</table>

Source: ECHA
Evaluation/classification: Based on available data, the classification criteria are met.

### Carcinogenicity

No data available

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Aspiration hazard

No data available

### SECTION 12: Ecological information

#### 12.1 Toxicity

#### Toxicity to fish (acute)

No data available

#### Toxicity to fish (chronic)

No data available

#### Toxicity to Daphnia (acute)

<table>
<thead>
<tr>
<th>No</th>
<th>Substance name</th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>75980-60-8</td>
<td>278-355-8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EC50</th>
<th>Duration of exposure</th>
<th>Species</th>
<th>Method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.53</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>OECD 202</td>
<td>ECHA</td>
</tr>
</tbody>
</table>

#### Toxicity to Daphnia (chronic)

No data available
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---

### Toxicity to algae (acute)

<table>
<thead>
<tr>
<th>No</th>
<th>Substance name</th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
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<td>278-355-8</td>
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</table>

<table>
<thead>
<tr>
<th>EC50</th>
<th>Duration of exposure</th>
<th>Species</th>
<th>Method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 2.01 mg/l</td>
<td>72 h</td>
<td>Pseudokirchneriella subcapitata</td>
<td>OECD 201</td>
<td>ECHA</td>
</tr>
</tbody>
</table>

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

---

### 12.2 Persistence and degradability

#### Biodegradability

<table>
<thead>
<tr>
<th>No</th>
<th>Substance name</th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
<tr>
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<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
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<td>278-355-8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Value</th>
<th>Duration</th>
<th>Method</th>
<th>Source</th>
<th>Evaluation</th>
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<tr>
<td>aerobic biodegradation</td>
<td>0</td>
<td>28 d</td>
<td>OECD 301 F</td>
<td>ECHA</td>
<td>not readily biodegradable</td>
</tr>
</tbody>
</table>

### 12.3 Bioaccumulative potential

#### Partition coefficient: n-octanol/water

<table>
<thead>
<tr>
<th>No</th>
<th>Substance name</th>
<th>CAS no.</th>
<th>EC no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>75980-60-8</td>
<td>278-355-8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>log Pow</th>
<th>Reference temperature</th>
<th>Method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>23 °C</td>
<td>OECD 117</td>
<td>ECHA</td>
</tr>
</tbody>
</table>

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

#### Results of PBT and vPvB assessment

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PBT assessment</td>
<td>No data available.</td>
</tr>
<tr>
<td>vPvB assessment</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

### 12.6 Other adverse effects

No data available.

### 12.7 Other information

<table>
<thead>
<tr>
<th>Other information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not discharge product unmonitored into the environment.</td>
</tr>
</tbody>
</table>

---

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.
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SECTION 14: Transport information

14.1 Transport ADR/RID/ADN
The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG
The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA
The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information
No data available.

14.5 Environmental hazards
Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user
No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation
According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances
This product is not subject to Part 1 or 2 of Annex I.

Other regulations
Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment
A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)
EU safety data sheet

Trade name: VarseoSmile Crown plus (REF 41107)
Product no.: REF 41107
Current version: 6.0.0, issued: 21.10.2020
Replaced version: 5.0.0, issued: 21.09.2020
Region: GB

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H411 Toxic to aquatic life with long lasting effects.

Creation of the safety data sheet
UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience. The safety data sheet describes products with a view to safety requirements. It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:
Alterations to the previous edition are marked in the left-hand margin.

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