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

1. **Product identifier**

   Visalys Core

2. **Relevant identified uses of the substance or mixture and uses advised against**

3. **Details of the supplier of the safety data sheet**

   | Company name: | Kettenbach GmbH & Co. KG |
   | Street:       | Im Heerfeld 7             |
   | Place:        | D-35713 Eschenburg        |
   | Telephone:    | +49(0) 2774/705-0         |
   | e-mail:       | info@kettenbach.com       |
   | Contact person: | Regulatory Affairs Manager |
   | Telephone:    | +49 (0)2774/705-0         |
   | Internet:     | www.kettenbach.com        |
   | Responsible Department: | Regulatory Affairs |

## Further Information

For dental use only!

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

**Regulation (EC) No. 1272/2008**

- **Hazard categories:**
  - Skin corrosion/irritation: Skin Irrit. 2
  - Serious eye damage/eye irritation: Eye Irrit. 2
  - Respiratory or skin sensitisation: Skin Sens. 1
  - Specific target organ toxicity - single exposure: STOT SE 3
  - Hazardous to the aquatic environment: Aquatic Chronic 3

- **Hazard Statements:**
  - Causes skin irritation.
  - Causes serious eye irritation.
  - May cause an allergic skin reaction.
  - May cause respiratory irritation.
  - Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

**Regulation (EC) No. 1272/2008**

- **Hazard components for labelling:**
  - Aliphatic Dimethacrylate
  - Aliphatic Trimethacrylate
  - Dibenzoyl peroxide
  - 2-(2-Hydroxy-5-methylphenyl)benzotriazole

- **Signal word:** Warning

- **Pictograms:**

- **Hazard statements**
  - H315: Causes skin irritation.
  - H317: May cause an allergic skin reaction.
  - H319: Causes serious eye irritation.
  - H335: May cause respiratory irritation.
  - H412: Harmful to aquatic life with long lasting effects.
Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to Refer to any Community provisions relating to waste..

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization
Preparation of multifunctional methacrylates, filler materials and additives

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>13760-80-0</td>
<td>Ytterbium (III) fluoride</td>
<td>15 - &lt; 20 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335</td>
</tr>
<tr>
<td>confidential</td>
<td>Aliphatic Dimethacrylate</td>
<td>5 - &lt; 10 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H315 H319 H317 H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aliphatic Trimethacrylate</td>
</tr>
<tr>
<td>94-36-0</td>
<td>Dibenzoyl peroxide</td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317</td>
</tr>
<tr>
<td>2440-22-4</td>
<td>2-(2-Hydroxy-5-methylphenyl)benzotriazole</td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Irrit. 2B, Skin Sens. 1; H320 H317</td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After contact with skin
After contact with skin, wash immediately with: Water and soap.

After contact with eyes
If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion
Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

SECTION 5: Firefighting measures

5.1. Extinguishing media
5.3. Advice for firefighters
No special technical protective measures are necessary.

Additional information
Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
avoid contact with skin Following eye contact: Consult an ophthalmologist.

6.3. Methods and material for containment and cleaning up
Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
Avoid heat sources and direct sunlight.

Further information on handling
The usual precautions when handling chemicals have to be obtained.
When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>94-36-0</td>
<td>Dibenzoyl peroxide</td>
<td>-</td>
<td>5</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Protective and hygiene measures
The usual precautions when handling chemicals have to be obtained.

Eye/face protection
Safety glasses.

Hand protection
Protective gloves.

Suitable material:
Butyl rubber.,NR (Natural rubber (Caoutchouc), Natural latex),.PVC (Polyvinyl chloride).

Unsuitable material:
NBR (Nitrile rubber).

Skin protection
Protective clothing.

Respiratory protection
Not required.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- **Physical state:** Paste
- **Colour:** white, light beige
- **Odour:** nearly odourless

**Changes in the physical state**
- **Flash point:** > 100 °C
- **Density (at 23 °C):** ca. 1.75 g/cm³
- **Water solubility:** practically insoluble
- **Viscosity / dynamic:** ca. 12000 mPa·s (at 23 °C)

SECTION 10: Stability and reactivity

10.4. Conditions to avoid
None by intended use.

10.5. Incompatible materials
Radical former. Reducing agents.

10.6. Hazardous decomposition products
None by intended use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- **Acute toxicity**
  Toxicological data are not available.

- **Irritation and corrosivity**
  Irritant effect on the skin: Irritant effect on the eye:

- **Sensitising effects**
  Sensitization trough skin contact possible.

- **Carcinogenic/mutagenic/toxic effects for reproduction**
  No experimental indications of mutagenicity in-vitro exist.

**Practical experience**

Observations relevant to classification
No data available

**Further information**
May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity
Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Advice on disposal
Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge. Carry out a burning of hazardous waste according to official regulations.

Waste disposal number of waste from residues/unused products
070799 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; wastes not otherwise specified

Waste disposal number of used product
200301 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; other municipal wastes; mixed municipal waste

Waste disposal number of contaminated packaging
200301 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; other municipal wastes; mixed municipal waste

SECTION 14: Transport information

Land transport (ADR/RID)
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Marine transport (IMDG)
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)
14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Other applicable information
No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

National regulatory information
Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information

Changes
Update 2018-05-23

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2; H315</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2; H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Sens. 1; H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 3; H335</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 3; H412</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Relevant H and EUH statements (number and full text)

H242 Heating may cause a fire.
H315 Causes skin irritation.
### Visalys Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H320</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life.</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)