SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: Optitemp Automix

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

Relevant identified uses

Main use category: Professional use
Use of the substance/mixture: Dental materials.

Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier
Kerr Italia S.r.l.
Via Passanti, 332
84018 Scafati (SA) - Italy
T +39-081-850-8311
E-mail: safety@kerrhawe.com

Manufacturer
SpofaDental a.s.
Markova 238
CZ-506 46 Jicin Czech Republic
T +420 493 583 204
Contact person : safety@kerrhawe.com - tel. 00-800-41-050-505 (08.00-17.00)

1.4. Emergency telephone number

Emergency number: CHEMTREC® Emergency Call Center. Emergency Telephone Number (for USA only) 001-800-424-9300 International and Maritime Telephone Number +1 (703) 527-3867

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Newcastle Unit)</td>
<td>Claremont Place Newcastle-upon-Tyne, Newcastle</td>
<td>+44 191 2606182/+44 191 2606180 24H</td>
</tr>
</tbody>
</table>

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>H-Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irri. 2</td>
<td>H315</td>
</tr>
<tr>
<td>Eye Irri. 2</td>
<td>H319</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>H317</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>H335</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) : GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary statements (CLP) : P280 - Wear eye protection, protective gloves
2.3. Other hazards

Other hazards not contributing to the classification: None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.1. Substance

Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethoxylated Bisphenol A-dimethacrylate</td>
<td>(CAS No) 41637-38-1</td>
<td>35 - 45</td>
<td>Skin Irrit. 2, H315, Skin Sens. 1, H317, Eye Irrit. 2, H319, STOT SE 3, H335</td>
</tr>
<tr>
<td>Ethoxylated Bisphenol A-dimethacrylate</td>
<td>(EC no) 609-946-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethoxylated Bisphenol A-dimethacrylate</td>
<td>(REACH-no) 01-211980659-17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

**SECTION 4: FIRST AID MEASURES**

4.1. Description of first aid measures

First-aid measures general: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.

First-aid measures after ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Drink plenty of water. Do NOT induce vomiting. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: Causes skin irritation. May cause an allergic skin reaction.

Symptoms/injuries after eye contact: Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. In all cases of doubt, or when symptoms persist, seek medical attention.

**SECTION 5: FIREFIGHTING MEASURES**

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire. Foam, carbon dioxide (CO2) and powder.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Non-flammable.


5.3. Advice for firefighters

Firefighting instructions: Prevent fire fighting water from entering the environment. Use water spray or fog for cooling exposed containers. Evacuate area.
## Protection during firefighting
- Do not enter fire area without proper personal protective equipment, including respiratory protection.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

**General measures**
- Use personal protective equipment as required. Avoid all eye and skin contact and do not breathe vapour and mist.

**For non-emergency personnel**
- Protective equipment: See Heading 8.

**For emergency responders**
- No additional information available

#### 6.2. Environmental precautions

- Avoid release to the environment. Prevent entry to sewers and public waters. Discharging into rivers and drains is forbidden.

#### 6.3. Methods and material for containment and cleaning up

**For containment**
- Collect all waste in suitable and labelled containers and dispose according to local legislation.

**Methods for cleaning up**
- Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Wash off with plenty of water.

#### 6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

**Precautions for safe handling**
- Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions**
- Store in a dry place. Store in a closed container. Store in original container. Protect from sunlight. Store in a well-ventilated place.

**Storage temperature**
- 2 - 8 °C

#### 7.3. Specific end use(s)

- For professional use only.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

- No additional information available

#### 8.2. Exposure controls

**Appropriate engineering controls**
- Ensure good ventilation of the work station. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

**Personal protective equipment**
- Gloves. Safety glasses.

**Hand protection**
- Wear suitable gloves. Nitrile rubber gloves. Layer thickness: 0,09mm. Breakthrough time: >480 min. STANDARD EN 374

**Eye protection**
- Use splash goggles when eye contact due to splashing is possible. STANDARD EN 166

**Skin and body protection**
- Wear suitable protective clothing

**Respiratory protection**
- No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust. Standard EN 141

**Other information**
- Do not eat, drink or smoke during use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Paste</td>
</tr>
<tr>
<td>Colour</td>
<td>Yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>Ester</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>≈ 7</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 250 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 150 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>&gt; 380 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>200 °C</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>1</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>1.5 g/cm³</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: 10 g/l</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

Additional information: None to our knowledge.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No polymerization.

10.4. Conditions to avoid

Keep away from heat and direct sunlight. Can polymerise exothermically if heated, exposed to air, sunlight or by addition or free radical initiators.

10.5. Incompatible materials

Strong acids. solid salts and solutions containing heavy metals. reducing materials.

10.6. Hazardous decomposition products

No decomposition if stored and used normally.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td></td>
<td>pH: ≈ 7</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td>pH: ≈ 7</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td></td>
<td>Based on available data, the classification criteria are not met</td>
</tr>
</tbody>
</table>
Carcinogenicity: Not classified
Based on available data, the classification criteria are not met

Reproductive toxicity: Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure): May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Not classified
Based on available data, the classification criteria are not met

Aspiration hazard: Not classified
Based on available data, the classification criteria are not met

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2. Persistence and degradability
Optitemp Automix
Persistence and degradability: No data.

12.3. Bioaccumulative potential
Optitemp Automix
Bioaccumulative potential: No data.

12.4. Mobility in soil
Optitemp Automix
Ecology - soil: No data available.

12.5. Results of PBT and vPvB assessment
Optitemp Automix
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects
Other adverse effects: None to our knowledge.
Additional information: No other effects known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Regional legislation (waste): Dispose as hazardous waste.
Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations: Dispose of contents/container to an authorised waste collection point.
Ecology - waste materials: Avoid release to the environment.
European List of Waste (LoW) code: 18 01 06* - chemicals consisting of or containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
Not regulated for transport

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards
No supplementary information available

14.6. Special precautions for user
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IBC code: Not applicable.

SECTION 15: REGULATORY INFORMATION

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

EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

<table>
<thead>
<tr>
<th>Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10</th>
<th>Optitemp Automix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contains no substance on the REACH candidate list</td>
<td></td>
</tr>
<tr>
<td>Contains no REACH Annex XIV substances</td>
<td></td>
</tr>
</tbody>
</table>

National regulations


15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: OTHER INFORMATION

Date of issue: 8/31/2016
Revision date: 8/31/2016
Date of total revision: 8/31/2016
Version: 1.0
Signature: A. Åsebø Murel

Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>H- and EUH-statements</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Sensitisation — Skin, Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<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>H335</td>
<td>May cause respiratory irritation</td>
</tr>
</tbody>
</table>

The information in this safety data sheet is based on information from the manufacturer/supplier, present European and national legislation, and presupposes that the product is used within the specified area of application.