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

1.1. Product identifier

- **Trade name**: Degudent Kiss
- **REACH Registration No.**: if available listed in Chapter. 3

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

- **Relevant applications identified**
  - For dental use only.

1.3. Details of the supplier of the safety data sheet

- **Company**: DeguDent GmbH
  - Postfach 1364
  - D-63403 Hanau
- **Telephone**: +49 (0)6181/59-5767
- **Telefax**: +49 (0)6181/59-5879
- **Email address**: SDB.Degudent-DE@dentsplysirona.com

1.4. Emergency telephone number

- **Emergency information**: +49 (0)6181/59-50 (This telephone number is available during office hours only.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

- **Classification according to Regulation (EC) No. 1272/2008 [CLP]**
  - Not a hazardous mixture according to Regulation (EC) No 1272/2008.

2.2. Label elements

- **Labelling as per (EU) 1272/2008**
  - **Statutory basis**: Labelling not required according to EU-CLP Ordinance (1272/2008).

2.3. Other hazards

- **Zinc oxide fumes is released during processing**
- **A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.**

SECTION 3: Composition/information on ingredients

3.1. Substances

3.2. Mixtures

- **Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gold</td>
<td>79.4%</td>
</tr>
<tr>
<td>platinum</td>
<td>10.5%</td>
</tr>
</tbody>
</table>

CAS-No. | 7440-57-5 | EC-No. | 231-165-9 |
SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Dusts and vapours:
Remove to fresh air.

Eye contact
Dusts and vapours:
Rinse thoroughly with plenty of water keeping eyelid open.
Consult an eye doctor (ophthalmologist).

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

Symptoms
None known

Hazards
None known

4.3. Indication of any immediate medical attention and special treatment needed
None known

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
- Special powder against metal fire
- quenching powder
- dry sand
- common salt

Unsuitable extinguishing media:
- Water
- Carbon dioxide (CO2)

5.2. Special hazards arising from the substance or mixture
None known.

5.3. Advice for firefighters
Extinction measures are to be adjusted to the specific location.
The product itself does not burn.
Employ protective equipment commonly used in the event of fire.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
No special measures are required.

6.2. Environmental precautions
No special environmental precautions required.

6.3. Methods and material for containment and cleaning up
Use mechanical handling equipment.

6.4. Reference to other sections
Wear personal protective equipment; see section 8.
Disposal considerations; see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
In case of melting, soldering or grinding:
Dusts and vapors: Do not inhale.
Local ventilation.
No special measures are necessary if properly handled.
In case of dust or vapor: Wear personal safety equipment

7.2. Conditions for safe storage, including any incompatibilities
Storage
No special storage conditions required.
German storage class
13 - Non Combustible Solids

7.3. Specific end use(s)
We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th></th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Control parameters</th>
<th>Time Weighted Average (TWA): (EH40 WEL)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>platinum</strong></td>
<td>7440-06-4</td>
<td>231-116-1</td>
<td>5 mg/m(^3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control parameters</td>
<td>1 mg/m(^3)</td>
<td>Indicative</td>
<td>Time Weighted Average (TWA): (EU ELV)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>silver</strong></td>
<td>7440-22-4</td>
<td>231-131-3</td>
<td>0.1 mg/m(^3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control parameters</td>
<td>0.1 mg/m(^3)</td>
<td>Indicative</td>
<td>Time Weighted Average (TWA): (EU ELV)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tantal</strong></td>
<td>7440-25-7</td>
<td>231-135-5</td>
<td>5 mg/m(^3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control parameters</td>
<td>10 mg/m(^3)</td>
<td>Short Term Exposure Limit (STEL): (EH40 WEL)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Indium</strong></td>
<td>7440-74-6</td>
<td>231-180-0</td>
<td>0.1 mg/m(^3)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8.2. Exposure controls

**Engineering measures**
Zinc oxide fumes is released during processing. In case of melting, soldering or grinding, Adequate exhaustion / ventilation of the work site or machinery must be assured. Vacuuming of objects.

**Personal protective equipment**

**Respiratory protection**
If workplace exposure limit is exceeded apply Dust mask with P2 particle filter.

**Hand protection**
No special protective equipment required.

**Eye/face protection**
Safety glasses with side-shields

**Skin and body protection**
No particular measures required.

**Hygiene measures**
Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work. Do not inhale smoke, dust, vapor.

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**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><strong>Appearance</strong></td>
<td></td>
</tr>
<tr>
<td>Form</td>
<td>solid</td>
</tr>
<tr>
<td>Colour</td>
<td>light yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>not applicable (solid)</td>
</tr>
<tr>
<td>Melting point/ range</td>
<td>1140 - 1220 °C</td>
</tr>
<tr>
<td>Boiling point/ range</td>
<td>not applicable (solid)</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>not flammable</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density</td>
<td>18.2 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>insoluble</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET (EC 1907/2006)
Degudent Kiss

Partition coefficient: n-octanol/water  not applicable
Autoinflammability  Not capable of spontaneous combustion or heating.
Thermal decomposition  not applicable
Viscosity, dynamic  not applicable
Explosiveness  not applicable
Oxidizing properties  not oxidizing

9.2. Other information
Other information  No further physicochemical data were determined.

SECTION 10: Stability and reactivity

10.1. Reactivity
no data available

10.2. Chemical stability
The product is chemically stable.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions  No dangerous reactions known.

10.4. Conditions to avoid
No limitations

10.5. Incompatible materials
None known

10.6. Hazardous decomposition products
Decomposition products occurring when heated above melting temperature metallic vapors

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute oral toxicity  no data available
Acute inhalation toxicity  no data available
Acute dermal toxicity  no data available
Skin irritation  no data available
Eye irritation  no data available
Sensitization  no data available
Repeated dose toxicity  no data available
Mutagenicity assessment  no data available
Carcinogenicity  No data available
Toxicity to reproduction  No data available
SAFETY DATA SHEET (EC 1907/2006)
Degudent Kiss

Further information
No hazardous reactions are known if properly handled and stored.

SECTION 12: Ecological information

12.1. Toxicity

No ecotoxicological data is available for this product.

12.2. Persistence and degradability

Biodegradability: no data available

12.3. Bioaccumulative potential

Bioaccumulation: no data available

12.4. Mobility in soil

Mobility: The product is insoluble in water.

No further information available

12.5. Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6. Other adverse effects

Further Information: Dusts and water-soluble forms of the alloy: Introduction into soil, natural water bodies or sewerage must be prevented.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:
Can be used after re-conditioning.

SECTION 14: Transport information

Not dangerous according to transport regulations.

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards:

14.6 Special precautions for user: No

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment
SECTION 16: Other information

Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM American Society for Testing and Materials
ATP Adaptation to Technical Progress
BCF Bioconcentration factor
BetrSichV German Ordinance on Industrial Safety and Health
c.c. closed cup
CAS Chemical Abstract Services
CESIO European Committee of Organic Surfactants and their Intermediates
ChemG German Chemicals Act
CMR carcinogenic-mutagenic-toxic for reproduction
DIN German Institute for Standardization
DMEL Derived minimum effect level
DNEL Derived no effect level
EINECS European Inventory of Existing Commercial Chemical Substances
EC50 half maximal effective concentration
GeStoffV German Ordinance on Hazardous Substances
GGVSEB German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee German ordinance for sea transportation of dangerous goods
GLP Good Laboratory Practice
GMO Genetic Modified Organism
IATA International Air Transport Association
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
ISO International Organization For Standardization
LOAEL Lowest observed adverse effect level
LOEL Lowest observed effect level
NOAEL No observed adverse effect level
NOEC no observed effect concentration
NOEL no observed effect level
o. c. open cup
OECD Organisation for Economic Cooperation and Development
OEL Occupational Exposure Limit
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>PBT</td>
<td>Persistent, bioaccumulative, toxic</td>
</tr>
<tr>
<td>PEC</td>
<td>Predicted effect concentration</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted no effect concentration</td>
</tr>
<tr>
<td>REACH</td>
<td>REACH registration</td>
</tr>
<tr>
<td>RID</td>
<td>Convention concerning International Carriage by Rail</td>
</tr>
<tr>
<td>STOT</td>
<td>Specific Target Organ Toxicity</td>
</tr>
<tr>
<td>SVHC</td>
<td>Substances of Very High Concern</td>
</tr>
<tr>
<td>TA</td>
<td>Technical Instructions</td>
</tr>
<tr>
<td>TPR</td>
<td>Third Party Representative (Art. 4)</td>
</tr>
<tr>
<td>TRGS</td>
<td>Technical Rules for Hazardous Substances</td>
</tr>
<tr>
<td>VCI</td>
<td>German chemical industry association</td>
</tr>
<tr>
<td>vPvB</td>
<td>very persistent, very bioaccumulative</td>
</tr>
<tr>
<td>VOC</td>
<td>volatile organic compounds</td>
</tr>
<tr>
<td>VwVwS</td>
<td>German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes</td>
</tr>
<tr>
<td>WGK</td>
<td>Water Hazard Class</td>
</tr>
<tr>
<td>WHO</td>
<td>World Health Organization</td>
</tr>
</tbody>
</table>