

SAFETY DATA SHEET (EC 1907/2006)

Interaction Antagon Paste Opaque
Antagon Interaction Paste Opaque
Interaction Sakura Paste Opaque
Sakura Interaction Paste Opaque
Interaction Carrara Paste Opaque
Carrara Interaction Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|------------|---------------|------------|
| Material no. | | Version | 1.3 / GB |
| Specification | 172954 | Revision date | 01.12.2014 |
| VA-Nr | 01,699,502 | Print Date | 01.12.2014 |
| | | Page | 1 / 9 |

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name
Interaction Antagon Paste Opaque
Antagon Interaction Paste Opaque
Interaction Sakura Paste Opaque
Sakura Interaction Paste Opaque
Interaction Carrara Paste Opaque
Carrara Interaction Paste Opaque

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@dentsply.com

1.4. Emergency telephone number

Emergency information +49 (0)180 / 23 24-555 (international)

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.

Classification as per Directive 67/548/EC or Directive 1999/45/EC

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.

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

In case product dust is released:

Inhalation of ceramic dust (quartz dust) can cause silicosis.

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

3. Composition/information on ingredients

SAFETY DATA SHEET (EC 1907/2006)

Interaction Antagon Paste Opaque
Antagon Interaction Paste Opaque
Interaction Sakura Paste Opaque
Sakura Interaction Paste Opaque
Interaction Carrara Paste Opaque
Carrara Interaction Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|------------|---------------|------------|
| Material no. | | Version | 1.3 / GB |
| Specification | 172954 | Revision date | 01.12.2014 |
| VA-Nr | 01,699,502 | Print Date | 01.12.2014 |
| | | Page | 2 / 9 |

Chemical nature

The mixture contains:
Vitreous porcelain
Pigments

• butane-1,3-diol

| | | | |
|---------|----------|--------|-----------|
| CAS-No. | 107-88-0 | EC-No. | 203-529-7 |
|---------|----------|--------|-----------|

4. First aid measures

4.1. Description of first aid measures

Take off all contaminated clothing immediately.

Inhalation

Provide fresh air, seek medical advice if necessary.

Skin contact

Wash off with plenty of water and soap, seek medical advice if necessary.

Eye contact

Rinse thoroughly with plenty of water keeping eyelid open.

Seek medical advice.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

Consult a physician immediately.

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

Symptomatic treatment.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: All extinguishing substances suitable.

5.2. Special hazards arising from the substance or mixture

Do not inhale decomposition gases or noxious gases.

5.3. Advice for firefighters

The product itself does not burn.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.

Handle in accordance with good industrial hygiene and safety practices.

SAFETY DATA SHEET (EC 1907/2006)

Interaction Antagon Paste Opaque
Antagon Interaction Paste Opaque
Interaction Sakura Paste Opaque
Sakura Interaction Paste Opaque
Interaction Carrara Paste Opaque
Carrara Interaction Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|------------|---------------|------------|
| Material no. | | Version | 1.3 / GB |
| Specification | 172954 | Revision date | 01.12.2014 |
| VA-Nr | 01,699,502 | Print Date | 01.12.2014 |
| | | Page | 3 / 9 |

6.2. Environmental precautions

Introduction into soil, natural water bodies or sewerage must be prevented.

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment.

Dispose of contaminated material as a waste in a correct manner.

6.4. Reference to other sections

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes.

Handle in accordance with good industrial hygiene and safety practices.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Storage

Keep container tightly closed and dry.

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.

8. Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Engineering measures

In case product dust is released:

Ensure that there is suitable air extraction / ventilation in the workplace or at the working machines. If necessary extractor suction on specific objects.

Personal protective equipment

Respiratory protection

In case product dust is released:

Dust mask with P2 particle filter

Hand protection

Wear protective gloves made of the following materials: rubber or plastics.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

Eye protection

Safety glasses with side-shields

Hygiene measures

Avoid contact with skin, eyes, and clothing.

Preventive skin protection is recommended.

Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work.

Immediately change moistened and saturated work clothes.

SAFETY DATA SHEET (EC 1907/2006)

Interaction Antagon Paste Opaque
Antagon Interaction Paste Opaque
Interaction Sakura Paste Opaque
Sakura Interaction Paste Opaque
Interaction Carrara Paste Opaque
Carrara Interaction Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|-------------------|---------------|-------------------|
| Material no. | | Version | 1.3 / GB |
| Specification | 172954 | Revision date | 01.12.2014 |
| VA-Nr | 01,699,502 | Print Date | 01.12.2014 |
| | | Page | 4 / 9 |

Protective measures

Handle in accordance with good industrial hygiene and safety practices.
If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

| | |
|--------|------------------------------|
| Form | paste |
| Colour | depending on staining result |

| | |
|-------|-----------|
| Odour | odourless |
|-------|-----------|

| | |
|-----------------------|-----------------------------|
| Lower explosion limit | 1.8 %(V) butane-1,3-diol |
|-----------------------|-----------------------------|

| | |
|-----------------------|------------------------------|
| Upper explosion limit | 15.7 %(V) butane-1,3-diol |
|-----------------------|------------------------------|

| | |
|---------|-----------------------------|
| Density | 1.8 - 2.0 g/cm ³ |
|---------|-----------------------------|

| | |
|------------------|----------------|
| Water solubility | partly soluble |
|------------------|----------------|

| | |
|--------------------|---|
| Autoinflammability | Not capable of spontaneous combustion or heating. |
|--------------------|---|

9.2. Other information

| | |
|----------------------|--------|
| Ignition temperature | 375 °C |
|----------------------|--------|

| | |
|-------------------|--|
| Other information | No further physicochemical data were determined. |
|-------------------|--|

10. Stability and reactivity

10.1. Reactivity

no data available

10.2. Chemical stability

Under normal conditions: stable.

10.3. Possibility of hazardous reactions

| | |
|------------------------------------|---|
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
|------------------------------------|---|

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

11. Toxicological information

SAFETY DATA SHEET (EC 1907/2006)

Interaction Antagon Paste Opaque
Antagon Interaction Paste Opaque
Interaction Sakura Paste Opaque
Sakura Interaction Paste Opaque
Interaction Carrara Paste Opaque
Carrara Interaction Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|------------|---------------|------------|
| Material no. | | Version | 1.3 / GB |
| Specification | 172954 | Revision date | 01.12.2014 |
| VA-Nr | 01,699,502 | Print Date | 01.12.2014 |
| | | Page | 5 / 9 |

11.1. Information on toxicological effects

Animal experiment studies focusing on this formulation are not available.

| | |
|---------------------------|--|
| Acute oral toxicity | LD50 Rat: 18610 mg/kg Test substance: butane-1,3-diol |
| Acute inhalation toxicity | no data available |
| Acute dermal toxicity | LD50 Rabbit: > 20000 mg/kg Test substance: butane-1,3-diol |
| Skin irritation | Rabbit slight irritation Test substance: butane-1,3-diol |
| Eye irritation | Rabbit slight irritation Test substance: butane-1,3-diol |
| 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 |
| Human experience | Health injuries are not known or expected under normal use. |

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 No data available

12.5. Results of PBT and vPvB assessment

SAFETY DATA SHEET (EC 1907/2006)

Interaction Antagon Paste Opaque
Antagon Interaction Paste Opaque
Interaction Sakura Paste Opaque
Sakura Interaction Paste Opaque
Interaction Carrara Paste Opaque
Carrara Interaction Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|-------------------|---------------|-------------------|
| Material no. | | Version | 1.3 / GB |
| Specification | 172954 | Revision date | 01.12.2014 |
| VA-Nr | 01,699,502 | Print Date | 01.12.2014 |
| | | Page | 6 / 9 |

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

Do not allow entrance in sewage water and soil.

13. Disposal considerations

13.1. Waste treatment methods

Product

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

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 |

15. Regulatory information

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

National legislation

15.2. Chemical safety assessment

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

16. Other information

Further information

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

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

SAFETY DATA SHEET (EC 1907/2006)

Interaction Antagon Paste Opaque
Antagon Interaction Paste Opaque
Interaction Sakura Paste Opaque
Sakura Interaction Paste Opaque
Interaction Carrara Paste Opaque
Carrara Interaction Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|-------------------|---------------|-------------------|
| Material no. | | Version | 1.3 / GB |
| Specification | 172954 | Revision date | 01.12.2014 |
| VA-Nr | 01,699,502 | Print Date | 01.12.2014 |
| | | Page | 7 / 9 |

SAFETY DATA SHEET (EC 1907/2006)

Interaction Antagon Paste Opaque
Antagon Interaction Paste Opaque
Interaction Sakura Paste Opaque
Sakura Interaction Paste Opaque
Interaction Carrara Paste Opaque
Carrara Interaction Paste Opaque

DeguDent
 A Dentsply Company

| | | | |
|---------------|-------------------|---------------|-------------------|
| Material no. | | Version | 1.3 / GB |
| Specification | 172954 | Revision date | 01.12.2014 |
| VA-Nr | 01,699,502 | Print Date | 01.12.2014 |
| | | Page | 8 / 9 |

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 |
| GefStoffV | 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 |
| PBT | Persistent, bioaccumulative, toxic |
| PEC | Predicted effect concentration |
| PNEC | Predicted no effect concentration |
| REACH | REACH registration |
| RID | Convention concerning International Carriage by Rail |
| STOT | Specific Target Organ Toxicity |
| SVHC | Substances of Very High Concern |
| TA | Technical Instructions |
| TPR | Third Party Representative (Art. 4) |
| TRGS | Technical Rules for Hazardous Substances |
| VCI | German chemical industry association |
| vPvB | very persistent, very bioaccumulative |
| VOC | volatile organic compounds |
| VwVwS | German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes |
| WGK | Water Hazard Class |

SAFETY DATA SHEET (EC 1907/2006)

Interaction Antagon Paste Opaque
Antagon Interaction Paste Opaque
Interaction Sakura Paste Opaque
Sakura Interaction Paste Opaque
Interaction Carrara Paste Opaque
Carrara Interaction Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|-------------------|---------------|-------------------|
| Material no. | | Version | 1.3 / GB |
| Specification | 172954 | Revision date | 01.12.2014 |
| VA-Nr | 01,699,502 | Print Date | 01.12.2014 |
| | | Page | 9 / 9 |

WHO

World Health Organization