

# SAFETY DATA SHEET (EC 1907/2006)

## Orthoresin Powder

Version:	1.11 / GB	Material no.	D64040003
Revision date:	01.11.2017	Specification	141710
Issue date:	14.02.2003	VA-Nr	01777963
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name Orthoresin Powder  
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

Mechanical irritation of skin and mucous linings of eyes and respiratory tract may occur., Danger of dust explosion.  
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

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#### 3.2. Mixtures

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

• Poly(ethyl methacrylate)	95% - 100%
CAS-No.	9003-42-3

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Texts of H phrases, see in Chapter 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Remove contaminated or saturated clothing.

##### Inhalation

In case product dust is released:

Move victims into fresh air.

In case of persistent discomfort

Obtain medical attention.

##### Skin contact

Wash off with soap and plenty of water.

##### Eye contact

Possible discomfort is due to foreign substance effect.

Rinse thoroughly with plenty of water keeping eyelid open.

In case of persistent discomfort

Consult an ophthalmologist.

##### Ingestion

Rinse mouth.

After absorbing large amounts of substance:

Consult a physician.

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

##### Symptoms

No information available.

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

After absorbing large amounts of substance:

Acceleration of gastrointestinal passage

If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: mist  
Foam  
quenching powder  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media: High volume water jet

#### 5.2. Special hazards arising from the substance or mixture

May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

No particular measures required.

#### 6.2. Environmental precautions

Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

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

Pick up mechanically and collect in a suitable container. Avoid formation of dust.

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Sweep up to prevent slipping hazard.  
Clean up promptly by scoop or vacuum.

### Additional advice

Danger of slipping due to leaking or spilt product.

Ensure explosion proofness. Dispose of contaminated material as a waste in a correct manner.

### 6.4. Reference to other sections

Disposal considerations; see section 13.  
Wear personal protective equipment; see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid dust formation.

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

#### Advice on protection against fire and explosion

Danger of dust explosion.  
Caution - electrostatic charge may occur.  
Take precautionary measures against static discharges.  
Keep away from sources of ignition - No smoking.

#### Storage

Keep in a dry place.

#### 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

• exposure limit for dust		
CAS-No.		
Control parameters	10 mg/m3	(EH40 WEL)
type of exposure	Inhalable fraction.	
Control parameters	4 mg/m3	(EH40 WEL)
type of exposure	Respirable fraction.	

### 8.2. Exposure controls

#### Engineering measures

In case product dust is released:, Local ventilation.

#### Personal protective equipment

##### Respiratory protection

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

##### Hand protection

Wear protective gloves made of the following materials:.

Glove material butyl-rubber

Material thickness 0.5 mm

Break through time 60 min

The suitability for a specific workplace should be discussed with the producers of the protective gloves.,  
The exact break through time can be obtained from the protective glove producer and this has to be observed.

Preventive skin protection, Use barrier cream regularly.

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**Eye/face protection**

Safety glasses with side-shields, If dust occurs: basket-shaped glasses

**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., If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

## Appearance

Form	powder
Colour	depending on staining result

Odour	characteristic
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Odour threshold:	no data available
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pH	not applicable (solid)
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Melting point/range	> 210 °C
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Boiling point/range	no data available
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Flash point	not applicable (solid)
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Evaporation rate	not applicable, (solid)
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Flammability (solid, gas)	no data available
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Lower explosion limit	no data available
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Upper explosion limit	no data available
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Vapour pressure	not applicable (solid)
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Density	no data available
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Water solubility	insoluble
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Partition coefficient: n- octanol/water	not applicable
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Autoinflammability	Not capable of spontaneous combustion or heating.
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Thermal decomposition	250 °C
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Viscosity, dynamic	not applicable (solid)
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Explosiveness	Dusts might form explosive mixtures with air.
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Oxidizing properties	no data available
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### 9.2. Other information

Bulk density	no data available
Other information	No further physicochemical data were determined.

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No hazardous reactions are known if properly handled and stored.

### 10.4. Conditions to avoid

None known

### 10.5. Incompatible materials

None known

### 10.6. Hazardous decomposition products

decomposition products if heated above 250°C  
irritative gases/vapours, Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), organic products of decomposition

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

*No results of animal experiments with the product available.*

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
Assessment of STOT single exposure	no data available
Assessment of STOT repeat exposure	no data available
Risk of aspiration toxicity	not applicable
Mutagenicity assessment	no data available
Carcinogenicity	No data available
Toxicity to reproduction	No data available
Human experience	Mechanical irritation of skin and mucous linings of eyes and respiratory tract may occur.

### Toxicology Assessment

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Acute effects

An Expert Judgment stated that no classification is necessary based on present knowledge.

## SECTION 12: Ecological information

### 12.1. Toxicity

*Ecotoxicological tests with this preparation are not available.*

### 12.2. Persistence and degradability

Biodegradability No data available

### 12.3. Bioaccumulative potential

Bioaccumulation No data available

### 12.4. Mobility in soil

Mobility Is absorbed by the soil and is not mobile.  
The product is a high-molecular-weight, water insoluble, solid polymer.

### 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 The product is a solid, insoluble in water, chemically inert and virtually not biologically degradable.  
No negative effects known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Product

Disposal according to local authority regulations.

#### Uncleaned packaging

Disposal according to local authority regulations.

## 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

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**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.

**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.

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.

**Legend**

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level

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<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCi</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization