

# SAFETY DATA SHEET (EC 1907/2006)

## SilberStar

Version:	1.7 / GB	Material no.	5325090200
Revision date:	05.10.2017	Specification	149032
Issue date:	26.03.2004	VA-Nr	01776239
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name	SilberStar
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.
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### 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.)
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Specific Target Organ Toxicity - Repeated exposure (inhalation, Lungs)	Category 1	H372
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### 2.2. Label elements

#### Labelling as per (EU) 1272/2008

#### hazard-defining component(s) (GHS)

- Quartz (SiO<sub>2</sub>)
  - Cristobalite
- Hazard pictograms



Signal word	Danger
Hazard statement	H372 - Causes damage to organs through prolonged or repeated exposure.
Precautionary statement	P260 - Do not breathe dust. P264 - Wash hands thoroughly with soap and water after handling. P270 - Do not eat, drink or smoke when using this product. P314 - Get medical advice/ attention if you feel unwell. P501 - Dispose of contents/container in accordance with local regulation.

### 2.3. Other hazards

Can cause silicosis.  
ammonia forms if heated above 200 °C., ammonia irritating to respiratory system.  
A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

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### 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

<b>• Quartz (SiO<sub>2</sub>)</b>	50% - 70%		
CAS-No. 14808-60-7	EC-No. 238-878-4		
Specific Target Organ Toxicity - Repeated exposure (inhalation, Lungs)		Category 1	H372
<b>• Cristobalite</b>	10% - 30%		
CAS-No. 14464-46-1	EC-No. 238-455-4		
Specific Target Organ Toxicity - Repeated exposure (inhalation, Lungs)		Category 1	H372
<b>• magnesium oxide</b>	5% - 15%		
CAS-No. 1309-48-4	EC-No. 215-171-9		
<b>• ammonium dihydrogene-orthophosphate</b>	5% - 15%		
CAS-No. 7722-76-1	EC-No. 231-764-5		

Texts of H phrases, see in Chapter 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### Inhalation

Upon formation of vapours/fumes (ammonia):  
Remove to fresh air.

In case product dust is released:  
Remove to fresh air.

Possible discomfort:

Irritation and on occasion caustic effects to the mucous membranes (eyes, respiratory channels) are to be expected from local contact.

In case of complaints:  
Consult a physician.

##### Skin contact

Wash off with soap and water.

##### Eye contact

Following eye contact with ammonia - vapour

In case of complaints:

Rinse thoroughly with plenty of water keeping eyelid open.  
Consult an ophthalmologist.

In case product dust is released:

Possible discomfort is due to foreign substance effect.

Rinse thoroughly with plenty of water keeping eyelid open.

If eye irritation persists, consult a specialist.

##### Ingestion

No hazards which require special first aid measures.

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

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### Symptoms

None known

### Hazards

None known

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

Symptomatic treatment.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: All extinguishing substances suitable.

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

ammonia forms if heated above 200 °C.  
The product itself does not burn.

#### 5.3. Advice for firefighters

Extinction measures are to be adjusted to the specific location.  
Employ protective equipment commonly used in the event of fire.

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### SECTION 6: Accidental release measures

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

In case of release dust:  
As a rule, work only with respiratory protective equipment.

#### 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.

#### 6.4. Reference to other sections

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

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

In case of release Dusts and vapours:  
As a rule, work only with respiratory protective equipment. If necessary: Local ventilation. Handle in accordance with good industrial hygiene and safety practice.

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

##### Storage

Keep in a dry, cool place.  
Keep container tightly closed.  
Use open containers immediately.

##### 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.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

- Quartz (SiO<sub>2</sub>)

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CAS-No.	14808-60-7	EC-No.	238-878-4
Control parameters	0.1 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Respirable.		
<b>• Cristobalite</b>			
CAS-No.	14464-46-1	EC-No.	238-455-4
Control parameters	0.1 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Respirable.		
<b>• magnesium oxide</b>			
CAS-No.	1309-48-4	EC-No.	215-171-9
Control parameters	4 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Respirable dust and/or fume.		
Control parameters	10 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Inhalable dust.		

**8.2. Exposure controls****Engineering measures**

Ensure suitable suction/aeration at the work place and with operational machinery. Avoid formation of dust.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used., If workplace exposure limit is exceeded apply Nose and mouth mask with P3 particle filter.

**Hand protection**

No particular measures required.

**Eye/face protection**

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

**Skin and body protection**

suitable protective clothing recommended, Avoid contaminating clothes with product., Change contaminated clothing., Wash contaminated clothing after use.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice., When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.

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

## Appearance

Form powder  
Colour depending on staining result

Odour almost odourless

Odour threshold: not applicable

pH ca. 5  
Melting point/range > 1500 °C

Boiling point/range not applicable  
(solid)

Flash point Not combustible.

Evaporation rate not applicable, (solid)

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Flammability (solid, gas)	not flammable
Lower explosion limit	not explosive
Upper explosion limit	not explosive
Vapour pressure	not applicable (solid)
Water solubility	hardly soluble
Partition coefficient: n-octanol/water	not applicable
Autoinflammability	Not capable of spontaneous combustion or heating.
Viscosity, dynamic	not applicable (solid)
Explosiveness	not explosive
Oxidizing properties	not oxidizing

### 9.2. Other information

Bulk density	1100 - 1200 kg/m <sup>3</sup>
Other information	No further physicochemical data were determined.

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## 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	Risk of decomposition when exposed to heat. ammonia forms if heated above 200 °C.
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### 10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use.

### 10.5. Incompatible materials

humidity, Water

### 10.6. Hazardous decomposition products

ammonia

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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
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Acute inhalation toxicity	no data available
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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
Assessment of STOT repeat exposure	Routes of exposure: inhalation Target Organs: Lungs Labelling not required by GHS regulation., Classification and labeling of the mixture according to voluntary self-classification of respirable crystalline silica (RCS) by the Industrial Minerals Association Europe (IMA Europe).
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. ammonia vapours: Irritation and on occasion caustic effects to the skin and mucous membranes (eyes, respiratory channels, in the stomach/intestinal tracts after swallowing) are to be expected from local contact.
Further information	No hazardous reactions are known if properly handled and stored., In case of improper handling: May cause silicosis.

**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 No data 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 Do not allow entrance in sewage water and soil.

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### 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

#### 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)

Classification	Classification procedure
STOT RE, 1 , H372	

#### Relevant H phrases from chapter 3

H372 : Causes damage to organs through prolonged or repeated exposure.

#### Further information

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

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**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
<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