SilaDon Powder

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

1.1 Product identifier

Commercial product name:	SilaDon Powder
Product group:	Powder component

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

Use of the substance/mixture:	Manufacture of dental products.

1.3 Details of the supplier of the safety data sheet

Manufacturer:	retec® Kunststofftechnik GmbH
Street / mailbox:	Industriestraße 2
Country code. / postal code / city:	D-61191 Rosbach v.d.H
Phone:	+49 (0) 6007 - 9157 0
Fax:	+49 (0) 6007 - 9157 29
E-mail / Website:	info@retec-dent.de / www.retec-dent.de
Contact person:	Herr Dr. Manfred Steinbach
e-mail:	manfred.steinbach@retec-dent.de
Supplier:	SILADENT Dr. Böhme & Schöps GmbH
Street / mailbox:	Im Klei 26
Country code. / postal code / city:	D - 38644 Goslar
Phone:	0 53 21 / 37 79 – 0
Fax:	0 53 21 / 38 96 32
E-mail / Website:	info@siladent.de / www.siladent.de

1.4 Emergency telephone number: +49 (0) 6007-91570

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

GB CLP Regulation: Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2 Label elements:

GB CLP Regulation

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P501 Dispose of contents/container to as hazardous waste - in accordance with local and national legislation - suitable, approved incinerator for combustible organic waste.

Special labelling of certain mixtures

EUH208 Contains dibenzoyl peroxide; benzoyl peroxide. May produce an allergic reaction.

2.3 Other hazards Contains methyl methacrylate, dibenzoyl peroxide. May cause allergic reactions.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterisation: Mixture based on polymethyl methacrylates and catalyst.

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
9011-14-7	Acrylic polymer			95 - < 100 %
94-36-0	dibenzoyl peroxide; benzoyl peroxide			< 1 %
	202-327-6		01-2119511472-50	
	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410			

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

General information: Get medical advice/attention if you feel unwell.

After inhalation: Provide fresh air.

After contact with skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes: Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion: Rinse mouth immediately and drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed: No information available.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Foam Extinguishing powder Carbon dioxide (CO2).

Unsuitable extinguishing media: Full water jet.

5.2 Special hazards arising from the substance or mixture: In case of fire may be liberated: Carbon monoxide, Carbon dioxide

5.3 Advice for firefighters: In case of fire: Wear self-contained breathing apparatus.

Additional information: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

General advice: Avoid dust formation. Do not breathe dust.

6.2 Environmental precautions: Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up:

Other information: Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections: Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Advice on safe handling: No special measures are necessary.

Advice on protection against fire and explosion: No special fire protection measures are necessary.

Advice on general occupational hygiene: Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels: Keep container tightly closed.

Hints on joint storage No special measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	WEL

8.2 Exposure controls:
Individual protection measures, such as personal protective equipment

Eye/face protection: Wear eye/face protection.

Hand protection: Authorisation No.

Skin protection: Wear suitable protective clothing.

Respiratory protection: In case of inadequate ventilation, wear respiratory protection. A suitable dust mask or respirator with filter type P1 or FFP1 (EN143 or EN149) may be suitable. In the unlikely event that particularly large amounts of dust are formed, a self-contained breathing apparatus may be appropriate.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Powder
Colour:	see packing
Odour:	characteristic
Melting point/freezing point:	ca. 110 °C
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	not determined not applicable

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	> 250 °C
Auto-ignition temperature:	> 400 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
Solubility in other solvents:	Soluble in hydrocarbons.
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,16 g/cm³
Bulk density (at 20 °C):	700 - 750 kg/m³
Relative vapour density:	not determined

9.2 Other information

Information with regard to physical hazard classes

Self-ignition temperature

Solid:	not determined
Gas:	not applicable
Oxidizing properties:	Not oxidising.

Other safety characteristics

Evaporation rate:	not determined
Solid content:	100 %

SECTION 10: Stability and reactivity

10.1 Reactivity: No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability: The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions: No known hazardous reactions.

10.4 Conditions to avoid: None.

10.5 Incompatible materials: No information available.

10.6 Hazardous decomposition products Exothermal decomposition with formation of:
Methyl methacrylate.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution: Toxicological data are not available.

Acute toxicity: Based on available data, the classification criteria are not met.

Irritation and corrosivity: Based on available data, the classification criteria are not met.

Sensitising effects: Contains dibenzoyl peroxide; benzoyl peroxide. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.
Additional information on tests:	The mixture is classified as not hazardous according to Directive 1999/45/EC.

SECTION 12: Ecological information

12.1	**Toxicity**	The product is not: Ecotoxic.
12.2	**Persistence and degradability:**	The product has not been tested.
12.3	**Bioaccumulative potential:**	The product has not been tested.
12.4	**Mobility in soil:**	The product has not been tested.
12.5	**Results of PBT and vPvB assessment:**	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. The product has not been tested.
12.6	**Endocrine disrupting properties:**	This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
12.7	**Other adverse effects:**	No information available.
	Further information:	Avoid release to the environment.

SECTION 13: Disposal considerations

13.1	**Waste treatment methods:**	
	Disposal recommendations:	Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
	Contaminated packaging:	Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID):

14.1	**UN number:**	No dangerous good in sense of this transport regulation.
14.2	**UN proper shipping name:**	No dangerous good in sense of this transport regulation.
14.3	**Transport hazard class(es):**	No dangerous good in sense of this transport regulation.
14.4	**Packing group:**	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1	**UN number:**	No dangerous good in sense of this transport regulation.
14.2	**UN proper shipping name:**	No dangerous good in sense of this transport regulation.
14.3	**Transport hazard class(es):**	No dangerous good in sense of this transport regulation.
14.4	**Packing group:**	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1	**UN number:**	No dangerous good in sense of this transport regulation.

14.2	**UN proper shipping name:**	No dangerous good in sense of this transport regulation.
14.3	**Transport hazard class(es):**	No dangerous good in sense of this transport regulation.
14.4	**Packing group:**	No dangerous good in sense of this transport regulation.
	Air transport (ICAO-TI/IATA-DGR)	
14.1	**UN number:**	No dangerous good in sense of this transport regulation.
14.2	**UN proper shipping name:**	No dangerous good in sense of this transport regulation.
14.3	**Transport hazard class(es):**	No dangerous good in sense of this transport regulation.
14.4	**Packing group:**	No dangerous good in sense of this transport regulation.

14.5 Environmental hazards
ENVIRONMENTALLY HAZARDOUS: No

14.6 Special precautions for user No information available.

14.7 Maritime transport in bulk according to IMO instruments: not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information: To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 1 - slightly hazardous to water

15.2 Chemical safety assessment Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Abbreviations and acronyms

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS	Chemical Abstracts Service
LC50:	Lethal concentration, 50%
LD50:	Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H241	Heating may cause a fire or explosion.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains dibenzoyl peroxide; benzoyl peroxide. May produce an allergic reaction.

Further Information:
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)