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

1.1. Product identifier

Trade name: Lucitone HIPA 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)6181/59-5576
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

Chemical nature
The mixture contains:, Traces of:, Dibenzoylperoxide

3.1. Substances

-

3.2. Mixtures

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

• **Poly(methyl methacrylate)**	>= 95% - <= 100%
CAS-No. 9011-14-7	

• **Titanium dioxide**		>= 0.05% - <= 0.5%		
CAS-No.	13463-67-7	EC-No.	236-675-5	
Carcinogenicity			Category 2	H351

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 beallowed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: mist
Foam
quenching powder
Carbon dioxide (CO_2)

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.
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.		
• **Titanium dioxide**			
CAS-No.	13463-67-7	EC-No.	236-675-5
Control parameters	4 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Respirable.		
Control parameters	10 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
type of exposure	Inhalable		

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.

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
Odour threshold:	no data available
pH	not applicable (solid)
Melting point/range	> 210 °C
Boiling point/range	no data available
Flash point	not applicable (solid)
Evaporation rate	not applicable, (solid)
Flammability (solid, gas)	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	not applicable (solid)
Density	no data available
Water solubility	insoluble
Partition coefficient: n-octanol/water	not applicable
Autoinflammability	Not capable of spontaneous combustion or heating.

Thermal decomposition	250 °C
Viscosity, dynamic	not applicable (solid)
Explosiveness	Dusts might form explosive mixtures with air.
Oxidizing properties	no data available

9.2. Other information

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

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 (CO2), organic products of decomposition

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

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

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 Regulatione 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)

Relevant H phrases from chapter 3

H351 : Suspected of causing cancer.

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
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
WHO	World Health Organization