

SAFETY DATA SHEET (EC 1907/2006)**Lucitone Digital Print™ 3D Denture Resin**

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Material no.
Specification 187856
VA-Nr 01906948

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name Lucitone Digital Print™ 3D Denture Resin
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]**

Serious eye damage/eye irritation	Category 1	H318
Chronic aquatic toxicity	Category 2	H411
Skin Sensitisation	Category 1B	H317
Toxicity to reproduction	Category 2	H361fd

2.2. Label elements**Labelling as per (EU) 1272/2008**

Hazard pictograms



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Signal word	Warning
Hazard statement	H318 - Causes serious eye damage. H317 - May cause an allergic skin reaction. H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statement: Prevention	P201 + P202 - Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement: Reaction	P308 + P313 - IF exposed or concerned: Get medical advice/ attention. P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap. P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/ physician. P391 - Collect spillage.
Precautionary statement: Storage	P405 - Store locked up.
Precautionary statement: Disposal	P501 - Dispose of contents/container according to the local / regional/national/international waste disposal regulations.

2.3. Other hazards**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

• Organic Methacrylate Monomer	>= 40% - <= 50%		
Reproductive toxicity		Category 1	H361
Chronic aquatic toxicity		Category 2	H411
Skin Sensitisation		Category 1	H317
• Photoinitiator	<= 1.5%		
Reproductive toxicity		Category 2	H361
• Organic Acrylate Monomer	>= 1% - <= 5%		
Serious eye damage		Category 1	H318
Skin Sensitisation		Category 1	H317
Chronic aquatic toxicity		Category 2	H411

Texts of H phrases, see in Chapter 16

SECTION 4: First aid measures**4.1. Description of first aid measures**

Avoid contact with skin, eyes and clothing.
 May cause eye and skin irritation.

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Call a physician immediately.

Inhalation

Move victims into fresh air.
If symptoms persist, call a physician.

Skin contact

Remove product immediately with cellucotton (or similar material).
Flush skin with large amounts of water. If irritation develops and persists, get medical attention.
Remove and wash contaminated clothing before re-use.

Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.
In case of persistent discomfort: Consult doctor immediately.

Ingestion

Do not induce vomiting
Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person.
If feeling unwell seek medical advice.

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

Symptoms

Irritant effect on eyes and skin
Allergic reactions

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam, water spray or fog.
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture

Danger of decomposition under influence of heat.
danger of polymerisation

5.3. Advice for firefighters

Water for fire fighting must not be introduced in the sewer system, subsoil, or surface waters. Assure that there are sufficient fire water retaining facilities Contaminated fire fighting water must be disposed of in conformity with the regulations of the local authorities.
Fire residues should be disposed of in accordance with the regulations.
In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing.
Do not breathe vapours or spray mist.
Wear suitable protective clothing.

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

Keep in suitable, closed containers for disposal.

Additional advice

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For disposal considerations see section 13.

6.4. Reference to other sections**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid inhalation, ingestion and contact with skin and eyes.
Wear suitable protective clothing.
Avoid inhalation of vapour or mist.
Upon skin contact, wash with plenty of water and soap.
Protect from heat sources, heat and exposure to direct sunlight
Do not allow containers and vessels to stand open
Follow all SDS/label precautions even after container is emptied because it may retain product residues.

7.2. Conditions for safe storage, including any incompatibilities**Advice on protection against fire and explosion**

Keep away from flames / sparks, no smoking.

Storage

Keep containers tightly closed in a cool, well-ventilated place.
Keep in a cool place away from oxidizing agents.
Do not store under inert gas.

German storage class

12 - Non Combustible Liquids

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****Other information**

None known.

8.2. Exposure controls**Engineering measures**

Ensure suitable suction/aeration at the work place and with operational machinery.

Personal protective equipment**Respiratory protection**

In case of melting, soldering or grinding:, wear a self contained respiratory apparatus

Hand protection

Wear suitable gloves.

Eye/face protection

Tightly fitting safety goggles

Hygiene measures

Observe the rules usually applicable when handling chemicals.

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

Form	liquid
Colour	pink
physical state	liquid

Odour	characteristic
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Odour threshold:	no data available
pH	no data available
Melting point/freezing point	no data available
Boiling point/range	no data available
Flash point	> 93 °C
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Vapour density	no data available
Density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Autoinflammability	no data available
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available
Explosiveness	no data available

9.2. Other information

Ignition temperature	no data available
Metal corrosion	Not to be expected.

SECTION 10: Stability and reactivity**10.1. Reactivity**

no data available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Polymerisation can occur., Polymerisation occurs when exposed to white light, ultraviolet light or heat.
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10.4. Conditions to avoid

sun rays, heat, heat effect

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**10.5. Incompatible materials**

Oxidizing agents, Reducing agents, radical generating substances

10.6. Hazardous decomposition products

carbon monoxide, carbon dioxide, Methacrylate

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

no data available

Acute oral toxicity May be harmful to health if swallowed.

Acute inhalation toxicity Not a respiratory irritant

Acute dermal toxicity Harmful in contact with skin.

Skin irritation May cause skin irritation.

Eye irritation May cause eye irritation.

Sensitization May cause allergic skin reaction.

Assessment of STOT single exposure no data available

Assessment of STOT repeat exposure no data available

Risk of aspiration toxicity No aspiration toxicity classification

Toxicity to reproduction Experiments involving rats and mice revealed evidence of reduced reproductive capacity.

SECTION 12: Ecological information**12.1. Toxicity**

Toxicity to fish LC50 *Leuciscus idus*: 10 mg/l / 96 h

EC50 *Daphnia magna*: 1.21 mg/l / 48 h

Toxicity to algae ErC50 *Desmodesmus subspicatus*: 2.28 mg/l / 72 h

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**12.6. Other adverse effects**

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Further Information

Do not allow to enter waste water drains, watercourse or soil., May cause long-term adverse effects in the aquatic environment.

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: Yes
Not dangerous according to transport regulations., The Transport takes place according to special provision 375 ADR/RID/ADN (2015), subsection 2.10.2.7 of IMDG-Code (37. Amdt.) and special provision A197 of IATA-DGR (56th Edition), in packages of not more than 5 L / 5 Kg.

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
Eye Dam./Eye Irrit., 1 , H318 Aquatic Chronic, 2 , H411 Skin.sens., 1B , H317 , 2 , H361fd	

Relevant H phrases from chapter 3

- H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H361 : Suspected of damaging fertility or the unborn child.
H411 : Toxic to aquatic life with long lasting effects.

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

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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