

SAFETY DATA SHEET (EC 1907/2006)				
Lucitone Digital Fuse™ Step 2 - 3D Denture Bonding Resin				
Version:	1.0 / GB	Material no.		
Revision date:	-	Specification	187878	
Issue date:	10.06.2020	VA-Nr	01906948	
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name	Lucitone Digital Fuse™ Step 2 - 3D Denture Bonding 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.
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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)6181/59-5576
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.)
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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]

Serious eye damage	Category 1	H318
Chronic aquatic toxicity	Category 2	H411
Skin Sensitisation	Category 1B	H317
Reproductive toxicity	Category 2	H361

2.2. Label elements

Labelling as per (EU) 1272/2008

Hazard pictograms



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Signal word	Warning
Hazard statement	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.
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.
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 in accordance with local regulation.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

-

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
• Methacrylic acid		<= 1%	
Skin corrosion		Sub-category 1A	H314
Acute toxicity (Dermal)		Category 4	H312
Acute toxicity (Oral)		Category 4	H302

Texts of H phrases, see in Chapter 16

SECTION 4: First aid measures

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4.1. Description of first aid measures

Avoid contact with skin, eyes and clothing.
May cause eye and skin irritation.
Call a physician immediately.

Inhalation

Move victims into fresh air.
Do not leave victims unattended.
If symptoms persist, call a physician.

Skin contact

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.
Remove contact lenses.
If symptoms persist, call a physician.

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 used to extinguish fire should not enter drainage systems, soil or stretches of water.
Fire residues should be disposed of in accordance with the regulations.
In case of fire cool containers or take them to a safe place.
In the event of fire, wear self-contained breathing apparatus.
Wear personal protective equipment.

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.

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6.3. **Methods and material for containment and cleaning up**
Keep in suitable, closed containers for disposal.

Additional advice
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 in a cool place away from oxidizing agents.
Product and packaging should not be exposed to direct sunlight or UV light during storage.
Store in the original receptable, keeping this tightly sealed, under cool and dry conditions.
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**

• Methacrylic acid		
CAS-No.		
Control parameters	20 ppm 72 mg/m3	Time Weighted Average (TWA):(EH40 WEL)
Control parameters	40 ppm 143 mg/m3	Short Term Exposure Limit (STEL):(EH40 WEL)

- 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, Please note: National regulations.
Hand protection
Wear suitable gloves.
Eye/face protection
Tightly fitting safety goggles
Hygiene measures
Observe the rules usually applicable when handling chemicals.

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**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
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	no data available

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

no data available

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**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.

10.4. Conditions to avoid

sun rays, heat, heat effect

10.5. Incompatible materials

Oxidizing agents, Strong 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**

Acute oral toxicity	LD50 Rat: > 2000 mg/kg LD50 Rat: > 5000 mg/kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	LD50 Rat: > 2000 mg/kg LD50 Rat: 500 mg/kg
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.
Further information	May cause eye and skin irritation.

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	Not readily biodegradable.
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**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**

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.

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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., 1 , H318 Aquatic Chronic, 2 , H411 Skin.sens., 1B , H317 Repr., 2 , H361	

Relevant H phrases from chapter 3

H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
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.

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

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

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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