

**SAFETY DATA SHEET (EC 1907/2006)****Lucitone Digital Fuse™ Step 3 – 3D Sealer**

Version: 1.0 / GB  
 Revision date: -  
 Issue date: 10.06.2020  
 replaces version: -  
 Page: 1 / 9

Material no.  
 Specification 187873  
 VA-Nr 01906948

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

Trade name Lucitone Digital Fuse™ Step 3 – 3D Sealer  
 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]**

Skin irritation	Category 2	H315
Skin Sensitisation	Category 1	H317
Serious eye damage	Category 1	H318
Reproductive toxicity	Category 2	H361
Chronic aquatic toxicity	Category 3	H413
Flammable liquids	Category 2	H225
Acute aquatic toxicity	Category 3	H412

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

Statutory basis  
 Hazard pictograms

EU-CLP as per Regulation (EU) No. 1272/2008, Annex VI



**SAFETY DATA SHEET (EC 1907/2006)****Lucitone Digital Fuse™ Step 3 – 3D Sealer**

Version: **1.0 / GB**  
Revision date: -  
Issue date: **10.06.2020**  
replaces version: -  
Page: **2 / 9**

Material no.  
Specification **187873**  
VA-Nr **01906948**



Signal word	Danger
Hazard statement	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H361 - Suspected of damaging fertility or the unborn child if inhaled. H412 - Harmful 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. P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing vapours. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/ eye protection/ face protection.
Precautionary statement: Reaction	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P332 + P313 - If skin irritation occurs: Get medical advice/ attention. P363 - Wash contaminated clothing 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. P308 + P313 - IF exposed or concerned: Get medical advice/ attention. P370 + P378 - In case of fire: Use alcohol-resistant foam, carbon dioxide or water mist for extinction.
Precautionary statement: Storage	P403 + P235 - Store in a well-ventilated place. Keep cool. 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****Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008**

<b>• methyl methacrylate</b>		<b>&gt;= 40% - &lt;= 50%</b>			
CAS-No.	80-62-6	EC-No.	201-297-1		
Flammable liquids				Category 2	H225
Skin corrosion/irritation				Category 2	H315
Skin Sensitisation				Category 1	H317
Specific Target Organ Toxicity - Single exposure (inhalation)				Category 3	H335
<b>• Tris (2-hydroxy ethyl) isocyanurate triacrylate</b>		<b>&gt;= 30% - &lt;= 35%</b>			
CAS-No.	40220-08-4	EC-No.	254-843-6		
<b>• Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</b>		<b>&gt;= 1% - &lt;= 4%</b>			
CAS-No.	75980-60-8	EC-No.	278-355-8		
Reproductive toxicity				Category 2	H361f

# SAFETY DATA SHEET (EC 1907/2006)

## Lucitone Digital Fuse™ Step 3 – 3D Sealer

Version: 1.0 / GB  
Revision date: -  
Issue date: 10.06.2020  
replaces version: -  
Page: 3 / 9

Material no.  
Specification 187873  
VA-Nr 01906948



Texts of H phrases, see in Chapter 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Health injuries are not known or expected under normal use.  
Pay attention to self-protection.  
Move out of dangerous area.

##### Inhalation

Not required  
If breathed in, move person into fresh air.  
If symptoms persist, call a physician.

##### Skin contact

Upon skin contact, wash with plenty of water and soap.  
In the case of skin irritation or allergic reactions see a physician.  
Remove and wash contaminated clothing before re-use.

##### Eye contact

Immediately flush eye(s) with plenty of water.

##### Ingestion

Flush mouth immediately, then drink plenty of water, avoid vomiting, consult physician

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

##### Symptoms

Allergic reactions  
Health injuries may be delayed.  
May cause harm to the unborn child.

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

When eyes are affected, seek ophthalmologist.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

product is highly flammable.  
Gases and vapours are heavier than air and accumulate in low-lying areas  
Closed container may rupture if strongly heated.  
May be released in case of fire: toxic gases/vapours.

#### 5.3. Advice for firefighters

Wear personal protective equipment.  
Wear a positive-pressure supplied-air respirator with full facepiece.

### SECTION 6: Accidental release measures

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

Immediately evacuate personnel to safe areas.  
Remove all sources of ignition.  
Use only non-sparking tools.  
Do not breathe vapours or spray mist.  
Avoid contact with skin, eyes and clothing.  
Wear suitable protective clothing.

#### 6.2. Environmental precautions

Discharge into the environment must be avoided., If the product contaminates rivers and lakes or drains inform respective authorities.

**SAFETY DATA SHEET (EC 1907/2006)****Lucitone Digital Fuse™ Step 3 – 3D Sealer**

Version: **1.0 / GB**  
Revision date: -  
Issue date: **10.06.2020**  
replaces version: -  
Page: **4 / 9**

Material no.  
Specification **187873**  
VA-Nr **01906948**

**6.3. Methods and material for containment and cleaning up**

Collect up material. Transfer into suitable containers for recovery or disposal.  
Then flush with water.  
No sparking tools should be used.

**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.  
Do not inhale exhaust fumes, vapors, sprays or aerosols.  
Upon skin contact, wash with plenty of water and soap.  
Do not smoke.  
Do not allow containers and vessels to stand open

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

Keep away from flames / sparks, no smoking.

**Storage**

Store in original container.  
Protect from heat and exposure to direct sunlight

**German storage class**

3 - Flammable 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**

• methyl methacrylate			
CAS-No.	80-62-6	EC-No.	201-297-1
Control parameters	100 ppm 416 mg/m <sup>3</sup>		Short Term Exposure Limit (STEL):(EH40 WEL)
Control parameters	50 ppm 208 mg/m <sup>3</sup>		Time Weighted Average (TWA):(EH40 WEL)

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

Ensure suitable suction/aeration at the work place and with operational machinery., Explosion-proof installations required.

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

If used in accordance with the regulations: No particular protective equipment required., Please note: National regulations.

**Hand protection**

Wear suitable gloves.

**Eye/face protection**

recommended, Tightly fitting safety goggles

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**SAFETY DATA SHEET (EC 1907/2006)****Lucitone Digital Fuse™ Step 3 – 3D Sealer**

Version: 1.0 / GB  
Revision date: -  
Issue date: 10.06.2020  
replaces version: -  
Page: 5 / 9

Material no.  
Specification 187873  
VA-Nr 01906948

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

Appearance	
Form	liquid
Colour	yellow
physical state	liquid
Odour	characteristic
Odour threshold:	0.21 ppm
pH	no data available
Melting point/range	no data available
Boiling point/range	100 °C
Flash point	13 °C
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Lower explosion limit	2.1 %(V)
Upper explosion limit	12.5 %(V)
Vapour pressure	4666.28 hPa (20 °C)
Vapour density	no data available
Density	no data available
Relative density	1.1 (20 °C)
Water solubility	negligible
Partition coefficient: n-octanol/water	no data available
Autoinflammability	435 °C
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available
Explosiveness	Risk of bursting when overheated.

**9.2. Other information**

Ignition temperature	no data available
Metal corrosion	no data available

**SECTION 10: Stability and reactivity**

**SAFETY DATA SHEET (EC 1907/2006)****Lucitone Digital Fuse™ Step 3 – 3D Sealer**

Version: 1.0 / GB  
Revision date: -  
Issue date: 10.06.2020  
replaces version: -  
Page: 6 / 9

Material no.  
Specification 187873  
VA-Nr 01906948

**10.1. Reactivity**

Polymerisation can occur.

**10.2. Chemical stability**

Under normal conditions: stable.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions Hazardous polymerisation may occur.

**10.4. Conditions to avoid**

Keep away from sources of heat, flames and sparks., Keep away from direct sunlight.

**10.5. Incompatible materials**

Strong reducing agents, radical generating substances, Oxidizing agents

**10.6. Hazardous decomposition products**

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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

*no data available*

Acute oral toxicity	LD50 Oral Rat: 78800 mg/kg Related to substance: methyl methacrylate
Acute inhalation toxicity	LC50 Rat: 29.8 mg/l / 4 h Related to substance: methyl methacrylate
Acute dermal toxicity	LD50 Rabbit: > 5000 mg/kg Related to substance: methyl methacrylate
Skin irritation	May cause skin irritation.
Eye irritation	May cause eye irritation.
Sensitization	In case of inhalation or skin contact a sensitizing effect can not be excluded.
Assessment of STOT single exposure	Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Assessment of STOT repeat exposure	Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Risk of aspiration toxicity	No aspiration toxicity classification
Mutagenicity assessment	Mutagenicity: In vitro examinations (micro-organisms, cell cultures) show overwhelmingly negative results, literature., Not mutagenic in Ames Test.

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

Toxicity to fish LC50 Pimephales promelas (fathead minnow): 130 mg/l / 96 h

Toxicity to algae EC50 algae: 170 mg/l / 48 h

**12.2. Persistence and degradability**

**SAFETY DATA SHEET (EC 1907/2006)****Lucitone Digital Fuse™ Step 3 – 3D Sealer**

Version: **1.0 / GB**  
Revision date: -  
Issue date: **10.06.2020**  
replaces version: -  
Page: **7 / 9**

Material no.  
Specification **187873**  
VA-Nr **01906948**



Biodegradability no data available

**12.3. Bioaccumulative potential**

Bioaccumulation No significant bioaccumulation.

**12.4. Mobility in soil**

Mobility If the product penetrates the soil it will become mobile and might pollute the groundwater.

**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., Harmful to aquatic life with long lasting effects.

**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****Transport on land (ADR/RID/GGVSEB)**

- 14.1. UN number: UN 1247  
14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION  
14.3. Transport hazard class(es): 3  
14.4. Packing group: II  
14.5. Environmental hazards: --  
14.6. Special precautions for user: Yes  
ADR: Tunnel Restriction Code: (D/E)  
ADR: Measures as 2.2.3.2.2 ADR/RID/ADN have been applied., Observe listed materials regulation §35, paragraph 1 GGVSEB  
RID: Measures as 2.2.3.2.2 ADR/RID/ADN have been applied.

**Inland waterway transport (ADN/GGVSEB (Germany))**

- 14.1. UN number: UN 1247  
14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION  
14.3. Transport hazard class(es): 3  
14.4. Packing group: II  
14.5. Environmental hazards: --  
14.6. Special precautions for user: Yes  
Measures as 2.2.3.2.2 ADR/RID/ADN have been applied.

**Air transport ICAO-TI/IATA-DGR**

- 14.1. UN number: UN 1247  
14.2. UN proper shipping name: Methyl methacrylate monomer, stabilized solution  
14.3. Transport hazard class(es): 3  
14.4. Packing group: II

**SAFETY DATA SHEET (EC 1907/2006)****Lucitone Digital Fuse™ Step 3 – 3D Sealer**

Version:	1.0 / GB	Material no.	
Revision date:	-	Specification	187873
Issue date:	10.06.2020	VA-Nr	01906948
replaces version:	-		
Page:	8 / 9		



- 14.5. Environmental hazards: --  
14.6. Special precautions for user: Yes  
IATA-C: ERG-Code 3L  
IATA-P: ERG-Code 3L

**Sea transport IMDG-Code/GGVSee (Germany)**

- 14.1. UN number: UN 1247  
14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION  
14.3. Transport hazard class(es): 3  
14.4. Packing group: II  
14.5. Environmental hazards: --  
14.6. Special precautions for user: Yes  
EmS: F-E,S-D  
Clear of living quarters.  
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transport approval see regulatory information

**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****Relevant H phrases from chapter 3**

H225 : Highly flammable liquid and vapour.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H335 : May cause respiratory irritation.  
H361f : Suspected of damaging fertility.

**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

**SAFETY DATA SHEET (EC 1907/2006)****Lucitone Digital Fuse™ Step 3 – 3D Sealer**

Version: **1.0 / GB**  
Revision date: -  
Issue date: **10.06.2020**  
replaces version: -  
Page: **9 / 9**

Material no.  
Specification **187873**  
VA-Nr **01906948**



<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