

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

Version: 1.0 / GB
 Revision date: -
 Issue date: 10.06.2020
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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



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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**

• methyl methacrylate		>= 40% - <= 50%	
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
• Tris (2-hydroxy ethyl) isocyanurate triacrylate		>= 30% - <= 35%	
CAS-No.	40220-08-4	EC-No.	254-843-6
• Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		>= 1% - <= 4%	
CAS-No.	75980-60-8	EC-No.	278-355-8
Reproductive toxicity		Category 2	H361f

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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.

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**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 ³		Short Term Exposure Limit (STEL):(EH40 WEL)
Control parameters	50 ppm 208 mg/m ³		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.

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**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

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**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

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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

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- 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.

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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

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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