SAFETY DATA	SHEET (EC 1907/2	2006)		
Lucitone Digital F	<sup>-</sup> use™ Step 1 - 3D <sup>-</sup>	Tooth Conditioning	Agent	
Version: Revision date: Issue date: replaces version: Page:	1.0 / GB - 10.06.2020 - 1 / 10	Material no. Specification VA-Nr	187870 01906948	Dentsply Sirona

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

#### 1.1. Product identifier

Trade name	Lucitone Digital Fuse™ Step 1 - 3D Tooth Conditioning Agent
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]

Eye irritation	Category 2	H319
Reproductive toxicity	Category 2	H360Df
Skin irritation	Category 2	H315
Skin Sensitisation	Category 1	H317
Specific target organ toxicity - single exposure	Category 3	H336
Flammable liquids	Category 2	H225

#### 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	H315 - Cause H319 - Cause H317 - May c H336 - May c H360Df - May	/ flammable liquid and vap es skin irritation. es serious eye irritation. ause an allergic skin reac ause drowsiness or dizzin / damage the unborn child peated exposure may cau	tion. ess. I. Suspected of damag		
Precautionary statement: Prevention	P202 - Do no P210 - Keep sources. No s P233 - Keep P240 - Groun P241 - Use e P242 - Use n P243 - Take p P261 - Avoid P264 - Wash P271 - Use o P272 - Conta	n special instructions befor t handle until all safety pre away from heat, hot surfac smoking. container tightly closed. d/bond container and rece xplosion-proof electrical/ v on-sparking tools. precautionary measures a breathing dust/ fume/ gas hands thoroughly after ha nly outdoors or in a well-ve minated work clothing sho protective gloves/protective	ecautions have been re ces, sparks, open flame eiving equipment. rentilating/ lighting/ equ gainst static discharge / mist/ vapours/ spray. indling. entilated area. buld not be allowed out	es and other ignition ipment. of the workplace.	
Precautionary statement: Reaction	Remove cont P337 + P313 P303 + P361 clothing. Rins P333 + P313 P362 + P364 P304 + P340 comfortable f P312 - Call a	+ P338 - IF IN EYES: Rin act lenses, if present and - If eye irritation persists: + P353 - IF ON SKIN (or e skin with water/shower. - If skin irritation or rash o - Take off contaminated c - IF INHALED: Remove v or breathing. POISON CENTER or doc - IF exposed or concerned	easy to do. Continue ri Get medical advice/ att hair): Take off immedia ccurs: Get medical adv lothing and wash it bef ictim to fresh air and ke	nsing. tention. ately all contaminated vice/ attention. fore reuse. eep at rest in a position el unwell.	
Precautionary statement: Storage	P403 + P235 P405 - Store	- Store in a well-ventilated locked up.	d place. Keep cool.		
Precautionary statement: Disposal		se of contents/container a nal/international waste dis			

#### 2.3. Other hazards

Repeated exposure may cause skin dryness or cracking.

#### **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

• methyl a	cetate		>= 50% - <= 80%		
CAS-No. Flammable I Eye irritation	•	EC-No.	201-185-2	Category 2 Category 2	H225 H319

SAFETY D	ATA SHEET (	EC 1907/2006	)		
ucitone Dig	gital Fuse™ Ste	o 1 - 3D Tool	th Conditioning Ag	ent	
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Specific Ta	arget Organ Toxicity	- Single exposu	re	Category	3 H336
• Diphen	yl(2,4,6-trimethylt	oenzoyl)phos	phine oxide <= 0.5%		
CAS-No. Reproducti	75980-60-8 ive toxicity	EC-No.	278-355-8	Category 2	2 H361f
• tetrahyo	drofurfuryl metha	crylate	>= 1% - <= 10%		
CAS-No. Eye irritatio Specific tai Skin irritati	rget organ toxicity - s	EC-No.	219-529-5	Category 2 Category 2 Category 2	3 H335
Methac	rylic acid		<= 0.2%		
CAS-No.	79-41-4	EC-No.	201-204-4		
• 1,6-hex	anediol diacrylate	)	>= 5% - <= 15%		
CAS-No.	13048-33-4	EC-No.	235-921-9		

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

If breathed in, move person into fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with plenty of water for at least 15 minutes. In case of complaints: Consult doctor immediately. Remove and wash contaminated clothing before re-use.

#### Eye contact

Rinse immediately with plenty of water, also under the eyelids.

#### 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

May cause slight irritant effects on skin/eyes. Allergic reactions May cause headache and dizziness.

**4.3.** Indication of any immediate medical attention and special treatment needed Immediate medical attention is required.

#### **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 Keep away from sources of ignition - No smoking. Dangerous decomposition products possible.

#### 5.3. Advice for firefighters

Wear personal protective equipment. wear a self contained respiratory apparatus

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#### **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

Notify responsible authorities in case of gas leakage or if product gets into stretches of water, soil, or drainage systems.

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

Collect up material. Transfer into suitable containers for recovery or disposal.

#### Additional advice

For disposal considerations see section 13.

#### 6.4. Reference to other sections

#### SECTION 7: Handling and storage

# 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 Keep away from sources of ignition - No smoking.

Do not use sparking tools. Ground/bond container and receiving equipment.

#### 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

<ul> <li>methyl acetat</li> </ul>	e		
CAS-No. Control parameters	79-20-9 200 ppm 616 mg/m3	EC-No.	201-185-2 Time Weighted Average (TWA):(EH40 WEL)
Control parameters	250 ppm 770 mg/m3		Short Term Exposure Limit (STEL):(EH40 WEL)
Methacrylic a	cid		
CAS-No. Control parameters	79-41-4 20 ppm 72 mg/m3	EC-No.	201-204-4 Time Weighted Average (TWA):(EH40 WEL)

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Control parameters	40 ppm 143 mg/m3		Short Term Expo WEL)	sure Limit (STEL):(EH40

#### 8.2. Exposure controls

#### Engineering measures

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

#### 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

Tightly fitting safety goggles

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance Form Colour physical state	liquid yellow liquid	
Odour	like fruit	
Odour threshold:	no data available	
pH Melting point/freezing point	6.8 - 7.2 -99 °C	
Boiling point/range	58 °C	
Flash point	-13 °C	
Evaporation rate	5.3	
Flammability (solid, gas)	no data available	
Lower explosion limit	3.1 %(V)	
	Related to substance:	methyl acetate
Upper explosion limit	16 %(V) Related to substance:	methyl acetate
Vapour pressure	2266.48 hPa	(20 °C)
Vapour density	no data available	
Density	no data available	
Relative density	0.95 (20 °C)	
Water solubility	no data available	

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	Partition coefficient: n- octanol/water Autoinflammability Viscosity, dynamic Viscosity, kinematic Explosiveness		no data availabl 501 °C no data availabl no data availabl Risk of bursting	e		
).2.	Other information Ignition temperature Metal corrosion	I	No data availab	le		

#### **10.2.** Chemical stability Under normal conditions: stable.

No further information available

- **10.3.** Possibility of hazardous reactions Possibility of hazardous Reactions include volumetric expansion and a risk of container rupture. reactions
- **10.4.** Conditions to avoid Keep away from sources of heat, flames and sparks., Keep away from direct sunlight.
- **10.5.** Incompatible materials Oxidizing agents, Reducing agents, radical generating substances
- **10.6.** Hazardous decomposition products Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute oral toxicity	LD50 rat: > 5000 mg/kg Related to substance:	g Hexane-1,6-diol diacrylate
	LD50 Rat: > 5000 mg/ł Related to substance:	
	LD50 Rat: 120 mg/kg Related to substance:	methacrylic acid
Acute inhalation toxicity	LC50 Rat: 7.1 mg/l / 4 Related to substance:	
Acute dermal toxicity	LD50 Rabbit: > 5000 m Related to substance:	
	LD50 Rabbit: 1000 - 1 Related to substance:	
	LD50 Rabbit: 3600 mg Related to substance:	g/kg Hexane-1,6-diol diacrylate

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Skin irritation		May cause skir	n irritation.		
Eye irritation		May cause eye	e irritation.		
Sensitization		In case of inhalation or skin contact a sensitizing effect can not be excluded.			
Assessment of STOT exposure	r single	no data availab	ble		
Assessment of STOT exposure	•	Assessment: repeated expos	•	nage to organs thr	ough prolonged or
Risk of aspiration tox	kicity	No aspiration toxicity classification			
Mutagenicity assessr	ment	Did not show m	nutagenic effects	in animal experim	nents.
Further information		May cause eye	e and skin irritatio	ın.	

#### **SECTION 12: Ecological information**

12.1.	<b>Toxicity</b> Toxicity to fish	LC50 Fathead minnow: 320 mg/l / 96 h Related to substance: methyl acetate	
		LC50 Danio rerio (zebra fish): 250 - 350 mg/l / 96 h Related to substance: methyl acetate	
		LC50 Fish: 34.7 mg/l / 96 h Related to substance: Hexane-1,6-diol diacrylate	
	chronic toxicity in daphnia	EC50 Daphnia magna (Water flea): 1026 mg/l / 48 d Test substance: methyl acetate	
		EC50 Daphnia magna (Water flea): 2.6 mg/l / 48 d Test substance: Hexane-1,6-diol diacrylate	
12.2.	Persistence and degrada Biodegradability	<b>ability</b> Readily biodegradable.	
		Related to substance: methyl acetate	
12.3.	Bioaccumulative potenti Bioaccumulation	al no data available	
12.4.	<b>Mobility in soil</b> Mobility	no data available	
12.5.	5. Results of PBT and vPvB assessment		
12.6.	Other adverse effects Further Information	no data available	

#### **SECTION 13: Disposal considerations**

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Version: 10 / GB Material no. Specification 187870 01906948 DentSply Seve date: 10.06.2020 VA.Nr 01906948 DentSply Page: 8 / 10 3.1. Waste treatment methods Product Disposal according to local authority regulations. Uncleaned packaging Disposal according to local authority regulations. EECTION 14: Transport information ransport on land (ADP/RID/GGVSEB) 1.1. UN number: UN 1231 1.2. UN proper shipping name: METHYL ACETATE 3. Transport hazard class(es): 3 ADR: Tunnel Restriction Code: (D/E) ADR: Observe listed materials regulation \$35, paragraph 1 GGVSEB Nater vary transport (ADN/GGVSEB (Germany)) 1.1. UN number: UN 1231 1.2. UN proper shipping name: METHYL ACETATE 3. Transport hazard class(es): 3 4. Packing group: II 4. Packing group: II 5. Environmental hazards: - 6. Special precautions for user: No 1. transport hazard class(es): 3 4. Packing group: II 5. Environmental hazards: - 6. Special precautions for user: No 1. transport tacAO-TI/ATA-DGR 1.3. Transport hazard class(es): 3 4. Packing group: II 5. Environmental hazards: - 6. Special precautions for user: Yes 1.4. Transport hazard class(es): 3 4. Packing group: II 5. Environmental hazards: - 6. Special precautions for user: Yes 1.4. Transport hazard class(es): 3 4. Packing group: II 5. Environmental hazards: - 6. Special precautions for user: Yes 1.4. TA-P: ERG-Code 3H 1.4. TA-P: ERG-Code 3H 1.5. Environmental hazards: - 5. Special precautions for user: No 1.5. Environmental hazards: - 6. Special precautions for user: No 1.5. Environmental hazards: - 6. Special precautions for user: No 1.5. Environmental hazards: - 6. Special precautions for user: No 1.6. Environmental hazards: - 6. Special precautions for user: No 2. UN proper shipping name: METHYL ACETATE 3. Transport hazard class(es): 3		•		gent	
Page:       8 / 10         3.1. Waste treatment methods       Product         Disposal according to local authority regulations.       Uncleaned packaging         Disposal according to local authority regulations.       Uncleaned packaging         Disposal according to local authority regulations.       Uncleaned packaging         Control (ADD/RID/GGVSEB)       UN 1231         1.1. UN number:       UN 1231         2. UN proper shipping name:       METHYL ACETATE         3. Transport hazard class(es):       3         1.4. Packing group:       II         1.5. Environmental hazards:       -         ADR:       Observe listed materials regulation §35, paragraph 1 GGVSEB         Naterway transport (ADN/GGVSEB (Germany))       1.1         1.1. UN number:       UN 1231         2. UN proper shipping name:       METHYL ACETATE         3. Transport hazard class(es):       3         3. Transport hazard class(es):       3         4. Packing group:       II         1. UN number:       UN 1231	Version:	=	•		Deptoply
Page:       8 / 10         3.1. Waste treatment methods       Product         Disposal according to local authority regulations.       Uncleaned packaging         Disposal according to local authority regulations.       Uncleaned packaging         Disposal according to local authority regulations.       Uncleaned packaging         Control (ADD/RID/GGVSEB)       UN 1231         1.1. UN number:       UN 1231         2. UN proper shipping name:       METHYL ACETATE         3. Transport hazard class(es):       3         1.4. Packing group:       II         1.5. Environmental hazards:       -         ADR:       Observe listed materials regulation §35, paragraph 1 GGVSEB         Naterway transport (ADN/GGVSEB (Germany))       1.1         1.1. UN number:       UN 1231         2. UN proper shipping name:       METHYL ACETATE         3. Transport hazard class(es):       3         3. Transport hazard class(es):       3         4. Packing group:       II         1. UN number:       UN 1231	Issue date:	- 10.06.2020	•		Sirona
Product         Disposal according to local authority regulations.         Uncleaned packaging         Disposal according to local authority regulations.         ECTION 14: Transport information         ransport on land (ADR/RID/GGVSEB)         1.1       UN number:         2.2       UN proper shipping name:         3. Transport hazard class(es):       3         3. Transport hazard class(es):       3         4. Packing group:       II         5. Environmental hazards:       -         6. Special precautions for user:       Yes         ADR:       Tunnel Restriction Code: (D/E)         ADR:       Observe listed materials regulation §35, paragraph 1 GGVSEB         Intansport shipping name:       METHY1 ACETATE         3. Transport shipping name:       METHY1 ACETATE         3. Transport hazard class(es):       3         4. Packing group:       II         1. UN number:       UN 1231         2. UN proper shipping name:       Methyl acetate         3. Transport hazard class(es):       3         3. Transport hazard class(es):       3         4. Packing group:       II         1. UN number:       UN 1231         2. UN proper shipping name:       Methyl acetate	Page:	- 8 / 10			
Product         Disposal according to local authority regulations.         Uncleaned packaging         Disposal according to local authority regulations.         ECTION 14: Transport information         ransport on land (ADR/RID/GGVSEB)         1.1       UN number:         2.2       UN proper shipping name:         3. Transport hazard class(es):       3         3. Transport hazard class(es):       3         4. Packing group:       II         5. Environmental hazards:       -         6. Special precautions for user:       Yes         ADR:       Tunnel Restriction Code: (D/E)         ADR:       Observe listed materials regulation §35, paragraph 1 GGVSEB         Intansport shipping name:       METHY1 ACETATE         3. Transport shipping name:       METHY1 ACETATE         3. Transport hazard class(es):       3         4. Packing group:       II         1. UN number:       UN 1231         2. UN proper shipping name:       Methyl acetate         3. Transport hazard class(es):       3         3. Transport hazard class(es):       3         4. Packing group:       II         1. UN number:       UN 1231         2. UN proper shipping name:       Methyl acetate					
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ransport on land (ADR/RID/GGVSEB) 1. UN number: UN 1231 2. UN proper shipping name: METHYL ACETATE 3. Transport hazard class(es): 3 14. Packing group: II 5. Environmental hazards: 6. Special precautions for user: Yes ADR: Duserve listed materials regulation §35, paragraph 1 GGVSEB Vand waterway transport (ADN/GGVSEB (Germany)) 1. UN number: UN 1231 1.2. UN proper shipping name: METHYL ACETATE 3. Transport hazard class(es): 3 14. Packing group: II 5. Environmental hazards: 15. Special precautions for user: No 17 transport ICAO-TI/IATA-DGR 1. UN number: UN 1231 1.2. UN proper shipping name: Methyl acetate 1.3. Transport ICAO-TI/IATA-DGR 1.4. Packing group: II 1.5. Environmental hazards: 1.5. Environmental hazards: 1.5. Environmental hazards: 1.6. Special precautions for user: Yes 1.1. UN number: UN 1231 1.2. UN proper shipping name: Methyl acetate 1.3. Transport ICAO-TI/IATA-DGR 1.4. Packing group: II 1.5. Environmental hazards: 1.5. Environmental hazards: 1.6. Special precautions for user: Yes 1.4. Packing group: II 1.5. Environmental hazards: 1.5. Environmental hazards: 1.6. Special precautions for user: Yes 1.4. TA-P: ERG-Code 3H 1.4.TA-P: ERG-Code 3H 1.5. Environmental hazards: 3. Transport hazard class(es): 3 1.4. Packing group: II 1.5. Environmental hazards: 3. Transport hazard class(es): 3 1.4. Packing group: II 3.5. Transport hazard class(es): 3 3.4. Packing group: II 4. Packing group: II 5. Environmental hazards: 5. Special precautions for user: No EmS: F-E,S-D 4. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Disposal accord	ling to local authority	regulations.		
1. UN number:       UN 1231         1.2. UN proper shipping name:       METHYL ACETATE         3. Transport hazard class(es):       3         14. Packing group:       II         15. Environmental hazards:          6. Special precautions for user:       Yes         ADR:       Tunnel Restriction Code: (D/E)         ADR:       Observe listed materials regulation §35, paragraph 1 GGVSEB         Nand waterway transport (ADN/GGVSEB (Germany))         1.1. UN number:       UN 1231         1.2. UN proper shipping name:       METHYL ACETATE         3. Transport hazard class(es):       3         1.4. Packing group:       II         1.5. Environmental hazards:          1.4. Packing group:       II         1.5. Environmental hazards:          1.6. Special precautions for user:       No         ir transport ICAO-TI/IATA-DGR          1.1. UN number:       UN 1231         2.2. UN proper shipping name:       Methyl acetate         3. Transport hazard class(es):       3         3. Farasport ICAO-TI/IATA-DGR          1.5. Environmental hazards:          1.6. Special precautions for user:       Yes         IATA-C:       ERG-Code	SECTION 14: Transpo	ort information			
1. UN number:       UN 1231         1.2. UN proper shipping name:       METHYL ACETATE         3. Transport hazard class(es):       3         14. Packing group:       II         15. Environmental hazards:          6. Special precautions for user:       Yes         ADR:       Tunnel Restriction Code: (D/E)         ADR:       Observe listed materials regulation §35, paragraph 1 GGVSEB         Nand waterway transport (ADN/GGVSEB (Germany))         1.1. UN number:       UN 1231         1.2. UN proper shipping name:       METHYL ACETATE         3. Transport hazard class(es):       3         1.4. Packing group:       II         1.5. Environmental hazards:          1.4. Packing group:       II         1.5. Environmental hazards:          1.6. Special precautions for user:       No         ir transport ICAO-TI/IATA-DGR          1.1. UN number:       UN 1231         2.2. UN proper shipping name:       Methyl acetate         3. Transport hazard class(es):       3         3. Farasport ICAO-TI/IATA-DGR          1.5. Environmental hazards:          1.6. Special precautions for user:       Yes         IATA-C:       ERG-Code	Transport on land (Al	DR/RID/GGVSEB)			
<ul> <li>13. Transport hazard class(es): 3</li> <li>14. Packing group: II</li> <li>15. Environmental hazards:</li> <li>16. Special precautions for user: Yes</li> <li>ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB</li> <li>ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB</li> <li>ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB</li> <li>ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB</li> <li>ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB</li> <li>ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB</li> <li>ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB</li> <li>ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB</li> <li>ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB</li> <li>ADR: Observe listed materials regulation §35, paragraph 1 GGVSEB</li> <li>Adramotic dass(es): 3</li> <li>A Packing group: II</li> <li>Senvironmental hazards:</li> <li>Sepcial precautions for user: No</li> <li>Intransport ICAO-TI/IATA-DGR</li> <li>UN number: UN 1231</li> <li>Packing group: II</li> <li>Senvironmental hazards:</li> <li>Special precautions for user: Yes</li> <li>IATA-P: ERG-Code 3H</li> <li>IATA-P: ERG-Code 3H</li> <li>IATA-P: ERG-Code 3H</li> <li>UN 1231</li> <li>UN proper shipping name: METHYL ACETATE</li> <li>Transport IMDG-Code/GGVSee (Germany)</li> <li>UN 1231</li> <li>UN proper shipping name: METHYL ACETATE</li> <li>Transport hazard class(es): 3</li> <li>A Packing group: II</li> <li>Environmental hazards:</li> <li>Special precautions for user: Ves</li> <li>IATA-P: ERG-Code 3H</li> <li>IATA-P: ER</li></ul>	4.1. UN number:			-	
14.       Packing group:       I         15.       Environmental hazards:          16.       Special precautions for user:       Yes         ADR:       Tunnel Restriction Code: (D/E)       ADR:         ADR:       Observe listed materials regulation §35, paragraph 1 GGVSEB         Nand waterway transport (ADN/GGVSEB (Germany))       I         1.1.       UN number:       UN 1231         2.0.       UN proper shipping name:       METHYL ACETATE         3.       Transport hazard class(es):       3         4.       Packing group:       II         5.       Environmental hazards:          6.       Special precautions for user:       No         ir transport ICAO-TI/IATA-DGR       II         1.1.       UN number:       UN 1231         1.2.       UN proper shipping name:       Methyl acetate         3.       Transport hazard class(es):       3         1.4.       Packing group:       II         1.5.       Environmental hazards:          1.6.       Special precautions for user:       Yes         IATA-C:       ERG-Code 3H       III         1.1.       UN number:       UN 1231         1.2. <td></td> <td></td> <td></td> <td>E</td> <td></td>				E	
4.5. Environmental hazards:          6. Special precautions for user:       Yes         ADR:       Tunnel Restriction Code: (D/E)         ADR:       Observe listed materials regulation §35, paragraph 1 GGVSEB         Mand waterway transport (ADN/GGVSEB (Germany))          1.1. UN number:       UN 1231         1.2. UN proper shipping name:       METHYL ACETATE         1.3. Transport hazard class(es):       3         1.4. Packing group:       II         1.5. Environmental hazards:          1.6. Special precautions for user:       No         ir transport ICAO-TI/IATA-DGR          1.1. UN number:       UN 1231         1.2. UN proper shipping name:       Methyl acetate         1.3. Transport hazard class(es):       3         1.4. Packing group:       II         1.5. Environmental hazards:          1.6. Special precautions for user:       Yes         IATA-C:       ERG-Code 3H         IATA-C:       ERG-Code 3H         IATA-P:       ERG-Code 3H         IATA-P:       ERG-Code 3H         IATA-P:       IATA-P:         2. UN proper shipping name:       METHYL ACETATE         3. Transport hazard class(es):       3		u class(cs).			
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<ul> <li>1.3. Transport hazard class(es):</li> <li>3</li> <li>1.4. Packing group:</li> <li>1.5. Environmental hazards:</li> <li></li> <li>6. Special precautions for user:</li> <li>No</li> <li>ir transport ICAO-TI/IATA-DGR</li> <li>1.1. UN number:</li> <li>UN 1231</li> <li>2. UN proper shipping name:</li> <li>Methyl acetate</li> <li>3. Transport hazard class(es):</li> <li>3</li> <li>4. Packing group:</li> <li>II</li> <li>4. Packing group:</li> <li>II</li> <li>5. Environmental hazards:</li> <li></li> <li>6. Special precautions for user:</li> <li>Yes</li> <li>IATA-C:</li> <li>ERG-Code 3H</li> <li>IATA-P:</li> <li>ERG-Code 3H</li> <li>IATA-P:</li> <li>ERG-Code 3H</li> <li>IATA-P:</li> <li>ERG-Code 3H</li> <li>IATA-P:</li> <li>III</li> &lt;</ul>	4.1. UN number:				
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<ul> <li>1.3. Transport hazard class(es):</li> <li>3.4. Packing group:</li> <li>II</li> <li>1.5. Environmental hazards:</li> <li>1.6. Special precautions for user:</li> <li>IATA-C: ERG-Code 3H</li> <li>IATA-P: ERG-Code 3H</li> <li>IATA-P: ERG-Code 3H</li> <li>IATA-P: ERG-Code 3H</li> <li>IATA-P: Transport hazard class(es):</li> <li>3. Transport hazard class(es):</li> <li>3. Transport hazard class(es):</li> <li>3. Transport hazard class(es):</li> <li>4. Packing group:</li> <li>II</li> <li>I. Special precautions for user:</li> <li>I. UN number:</li> <li>I. UN 1231</li> <li>I. UN proper shipping name:</li> <li>METHYL ACETATE</li> <li>I. Transport hazard class(es):</li> <li>I. Packing group:</li> <li>II</li> <li>I. Special precautions for user:</li> <li>I. Special precautions for</li></ul>	4.1. UN number:		UN 1231		
<ul> <li>I.4. Packing group:</li> <li>I.5. Environmental hazards:</li> <li>I.5. Environmental hazards:</li> <li>I.6. Special precautions for user:</li> <li>IATA-C: ERG-Code 3H</li> <li>IATA-P: ERG-Code 3H</li> <li>IATA-P: ERG-Code 3H</li> <li>I.1. UN number:</li> <li>I.1. UN number:</li> <li>I.1. UN number:</li> <li>I.1. UN proper shipping name:</li> <li>I.2. UN proper shipping name:</li> <li>I.3. Transport hazard class(es):</li> <li>I.4. Packing group:</li> <li>I.5. Environmental hazards:</li> <li>I.6. Special precautions for user:</li> <li>I.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</li> </ul>			Methyl acetate		
<ul> <li>Environmental hazards:</li> <li>Special precautions for user: Yes IATA-C: ERG-Code 3H IATA-P: ERG-Code 3H</li> <li>Ea transport IMDG-Code/GGVSee (Germany)</li> <li>UN number: UN 1231</li> <li>UN proper shipping name: METHYL ACETATE</li> <li>Transport hazard class(es): 3</li> <li>Packing group: II</li> <li>Environmental hazards:</li> <li>Special precautions for user: No EmS: F-E,S-D</li> <li>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</li> </ul>		d class(es):			
<ul> <li>Special precautions for user: Yes</li> <li>IATA-C: ERG-Code 3H</li> <li>IATA-P: ERG-Code 3H</li> </ul> ea transport IMDG-Code/GGVSee (Germany) 4.1 UN number: UN 1231 4.2 UN proper shipping name: METHYL ACETATE 4.3 Transport hazard class(es): 3 4.4 Packing group: II 5.5 Environmental hazards: 6.6 Special precautions for user: No EmS: F-E,S-D 4.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:		azarde:	II		
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ea transport IMDG-Code/GGVSee (Germany)         I.1. UN number:       UN 1231         I.2. UN proper shipping name:       METHYL ACETATE         I.3. Transport hazard class(es):       3         I.4. Packing group:       II         I.5. Environmental hazards:          I.6. Special precautions for user:       No         EmS:       F-E,S-D         I.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:					
Image: Head of the second s	IATA-P: ERG	-Code 3H			
<ul> <li>UN proper shipping name: METHYL ACETATE</li> <li>Transport hazard class(es): 3</li> <li>Packing group: II</li> <li>Environmental hazards:</li> <li>Special precautions for user: No EmS: F-E,S-D</li> <li>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</li> </ul>	-	ode/GGVSee (Gerr			
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<ul> <li>H.4. Packing group:</li> <li>H.5. Environmental hazards:</li> <li>H.6. Special precautions for user:</li> <li>H.6. No</li> <li>EmS:</li> <li>F-E,S-D</li> <li>H.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</li> </ul>		5		E	
<ul> <li>Environmental hazards:</li> <li>Special precautions for user: No EmS: F-E,S-D</li> <li>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</li> </ul>	4.4. Packing group:	a olabo(00).			
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7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:		ons for user:			
	EmS:		F-E,S-D		
				I the IBC Code:	
	for transportapp	roval 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 Regulatione is required for this product.

SAFETY DATA	SHEET (EC 1907/2	2006)		
Lucitone Digital F	use™ Step 1 - 3D <sup>-</sup>	Tooth Conditioning	Agent	
Version: Revision date: Issue date: replaces version: Page:	1.0 / GB - 10.06.2020 - 9 / 10	Material no. Specification VA-Nr	187870 01906948	Dentsply Sirona

#### **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 Irrit., 2 , H319	
Repr., 2 , H360Df	
Skin Irrit., 2, H315	
Skin.sens., 1 , H317	
STOT SE, 3 , H336	
Flam. Liq., 2 , H225	

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

	<ul><li>Highly flammable liquid and vapour.</li><li>Causes skin irritation.</li></ul>
H319	: Causes serious eye irritation.
	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
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

Logona	
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

Lucitone Digital	Fuse™ Step 1 - 3D <sup>·</sup>	Footh Conditioning A	Agent	
Version:	1.0 / GB	Material no.		Destably
Revision date:	-	Specification	187870	Dentsply Sirona
Issue date:	10.06.2020	VA-Nr	01906948	Sirona
replaces version: Page:	- 10 / 10			
IATA		ansport Association		
ICAO		Aviation Organization		
IMDG		ime Dangerous Goods		
ISO		nization For Standardiza	ation	
LOAEL		adverse effect level		
LOEL	Lowest observed e			
NOAEL		No observed adverse effect level		
NOEC		no observed effect concentration		
NOEL	no observed effect level			
0. C.	open cup			
OECD	Organisation for Economic Cooperation and Development			
OEL	Occupational Expo	osure Limit		
PBT	Persistent, bioacci	umulative, toxic		
PEC	Predicted effect co	oncentration		
PNEC	Predicted no effec	t concentration		
REACH	REACH registratio	n		
RID	Convention concerning International Carriage by Rail			
STOT	Specific Target Organ Toxicity			
SVHC	Substances of Very High Concern			
ТА		Technical Instructions		
TPR	Third Party Repres	sentative (Art. 4)		
TRGS	Technical Rules for Hazardous Substances			
VCI	German chemical industry association			
vPvB	very persistent, very bioaccumulative			
VOC	volatile organic compounds			
VwVwS		ative Regulation on the	Classification of Sub	ostances Hazardous to
	Waters into Water	0		
WGK	Water Hazard Clas	-		
WHO	World Health Organization			

SAFETY DATA	SHEET (EC 1907/2	2006)		
Lucitone Digital F	<sup>-</sup> use™ Step 2 - 3D I	Denture Bonding Re	sin	
Version: Revision date: Issue date: replaces version: Page:	1.0 / GB - 10.06.2020 - 1 / 9	Material no. Specification VA-Nr	187878 01906948	Dentsply Sirona

#### 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.

#### 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	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



<b>Lucitone Digital Fuse</b>	e™ Step 2 - 3D D	enture Bonding Re	sin	
Version:	1.0 / GB	Material no.		Destably
Revision date: Issue date: replaces version:	- 10.06.2020 -	Specification VA-Nr	187878 01906948	Dentsply Sirona
Page:	2 / 9			
Signal word	Warning			
Hazard statement	H318 - Cause H361 - Suspe	ause an allergic skin reac s serious eye damage. cted of damaging fertility to aquatic life with long las	or the unborn child.	
Precautionary statement: Prevention	precautions ha P261 - Avoid I P272 - Contar P273 - Avoid i	<ul> <li>P201 + P202 - Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.</li> <li>P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection.</li> </ul>		
Precautionary statement: Reaction	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice/ attention.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 - Immediately call a POISON CENTER or doctor/ physician.</li> <li>P391 - Collect spillage.</li> </ul>			
Precautionary statement: Storage	P405 - Store locked up.			
Precautionary statement: Disposal	P501 - Dispos	e of contents/container in	accordance with lo	ocal 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 Chronic aquatic toxicity Skin Sensitisation		Category 1 Category 2 Category 1	H361 H411 H317
Photoinitiator	<= 1.5%		
Reproductive toxicity		Category 2	H361
Organic Acrylate Monomer	>= 1% - <= 5%		
Serious eye damage Skin Sensitisation Chronic aquatic toxicity		Category 1 Category 1 Category 2	H318 H317 H411
Methacrylic acid	<= 1%		
Skin corrosion Acute toxicity (Dermal) Acute toxicity (Oral)		Sub-category 1A Category 4 Category 4	H314 H312 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 Colour physical state	liquid pink liquid
Odour	characteristic
Odour threshold:	no data available
рН	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
Other information	
Ignition temperature	no data available
Metal corrosion	no data available

#### **SECTION 10: Stability and reactivity**

**10.1. Reactivity** no data available

9.2.

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10.3.	B. Possibility of hazardous reactions     Possibility of hazardous     Polymerisation can occur., Polymerisation occurs when exposed to white     reactions     light, ultraviolet light or heat.				
10.4.	<ol> <li>Conditions to avoid sun rays, heat, heat effect</li> </ol>				
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.	<b>Toxicity</b> 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.

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#### **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.

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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

H312 : H314 : H317 :	Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage.
H361 :	Suspected of damaging fertility or the unborn child. 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
ΙΑΤΑ	International Air Transport Association
ICAO	International Civil Aviation Organization
	-

	A SHEET (EC 1907/	•	•				
•	•	Denture Bonding Res	sin				
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IMDG	International Marit	ime Dangerous Goods					
ISO		nization For Standardiza	ation				
LOAEL		adverse effect level					
LOEL	Lowest observed	effect level					
NOAEL	No observed adve	erse effect level					
NOEC	no observed effec	t concentration					
NOEL	no observed effec	t level					
0. C.	open cup						
OECD	Organisation for E	conomic Cooperation ar	nd Development				
OEL	Occupational Exp	osure Limit					
PBT	Persistent, bioacc	Persistent, bioaccumulative, toxic					
PEC	Predicted effect co	Predicted effect concentration					
PNEC	Predicted no effect	t concentration					
REACH	REACH registration	on					
RID	Convention conce	rning International Carria	age by Rail				
STOT	Specific Target Or	gan Toxicity					
SVHC	Substances of Ve	ry High Concern					
TA	Technical Instruct	ions					
TPR	Third Party Repre	sentative (Art. 4)					
TRGS	Technical Rules for	or Hazardous Substance	S				
VCI	German chemical	industry association					
vPvB	very persistent, ve	ery bioaccumulative					
VOC	volatile organic co	mpounds					
VwVwS	German Administr Waters into Water	ative Regulation on the Hazard Classes	Classification of Su	bstances Hazardous to			
WGK	Water Hazard Cla	SS					
WHO	World Health Orga	anization					

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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 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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age:	2/9					
Signal word	Danger					
Hazard statement	H315 - Caus H317 - May H318 - Caus H361 - Susp	ly flammable liquid and vap ses skin irritation. cause an allergic skin react ses serious eye damage. bected of damaging fertility o nful to aquatic life with long	ion. or the unborn child if	inhaled.		
Precautionary statement: Prevention	precautions P210 - Keep P233 - Keep P240 - Grou P241 - Use P242 - Use P243 - Take P261 - Avoi P264 - Was P272 - Cont P273 - Avoi	2 - Obtain special instruction have been read and unders o away from heat/sparks/ope o container tightly closed. and and bond container and explosion-proof electrical/ v only non-sparking tools. e precautionary measures ag d breathing vapours. h hands thoroughly after ha caminated work clothing sho d release to the environment r protective gloves/ eye prot	stood. en flames/hot surface receiving equipment entilating/ lighting/ ec gainst static discharg ndling. uld not be allowed ou t.	es No smoking. quipment. le. ut of the workplace.		
Precautionary statement: Reaction	clothing. Rir P332 + P31 P363 - Was P305 + P35 Remove coi P310 - Imm P308 + P31	1 + P353 - IF ON SKIN (or I nse skin with water/shower. 3 - If skin irritation occurs: G h contaminated clothing bef 1 + P338 - IF IN EYES: Rins ntact lenses, if present and g ediately call a POISON CEN 3 - IF exposed or concerned 8 - In case of fire: Use alcoh nction.	Set medical advice/ a ore reuse. se cautiously with wa easy to do. Continue ITER or doctor/ phys d: Get medical advice	ttention. ater for several minutes. rinsing. sician. e/ attention.		
Precautionary statement: Storage	P403 + P23 P405 - Store	5 - Store in a well-ventilated e locked up.	l place. Keep cool.			
Precautionary statement: Disposal	P501 - Disp	ose of contents/container in	accordance with loc	al 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%		
Skin Sensi Specific Ta	sion/irritation itisation arget Organ Toxicity			Category 2 Category 2 Category 1 Category 3	H225 H315 H317 H335
• Tris (2-	hydroxy ethyl) is	ocyanurate tria	<b>crylate</b> >= 30% - <= 3	35%	
CAS-No.	40220-08-4	EC-No.	254-843-6		
• Diphen	yl(2,4,6-trimethyl	6			
CAS-No. Reproduct	75980-60-8 ive toxicity	EC-No.	278-355-8	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. Control parameters	80-62-6 100 ppm 416 mg/m3	EC-No.	201-297-1 Short Term Exposure Limit (STEL):(EH40 WEL)	
Control parameters	50 ppm 208 mg/m3		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 Colour physical Odour		liquid yellow liquid characterist	ic	
Odour thresh	old:	0.21 ppm		
pН		no data ava	ilable	
Melting point/r	ange	no data ava	ilable	
Boiling point/	range	100 °C		
Flash point	-	13 °C		
Evaporation I	rate	no data ava	ilable	
Flammability		no data ava	ilable	
Lower explos		2.1 %(V)		
Upper explos	sion limit	12.5 %(V)		
Vapour press	sure	4666.28 hP	а	(20 °C)
Vapour densi	ity	no data ava	ilable	
Density		no data ava	ilable	
Relative dens	sity	1.1	(20 °C)	
Water solubil	lity	negligible		
Partition coef		no data ava	ilable	
octanol/water Autoinflamma		435 °C		
Viscosity, dyr	namic	no data ava	ilable	
Viscosity, kin	ematic	no data ava	ilable	
Explosivenes	S	Risk of burs	ting when o	verheated.
Other infor		no data ava	ilable	

no data available

#### **SECTION 10: Stability and reactivity**

Metal corrosion

9.2.

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10.1.	. Reactivity Polymerisation can occur.						
10.2.	2. Chemical stability Under normal conditions: stable.						
10.3.	Possibility of hazardous reactionsPossibility of hazardousHazardous polymerisation may occur.reactions						
10.4.	<ol> <li>Conditions to avoid Keep away from sources of heat, flames and sparks., Keep away from direct sunlight.</li> </ol>						
10.5.	Incompatible materials Strong reducing agents, radical generating substances, Oxidizing agents						
10.6.	6. Hazardous decomposition products Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).						

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

<i>no data available</i> Acute oral toxicity	LD50 Oral Rat: 78800 Related to substance:	mg/kg methyl methacrylate
Acute inhalation toxicity	LC50 Rat: 29.8 mg/l / Related to substance:	4 h methyl methacrylate
Acute dermal toxicity	LD50 Rabbit: > 5000 n Related to substance:	ng/kg methyl methacrylate
Skin irritation	May cause skin irritatio	n.
Eye irritation	May cause eye irritatio	n.
Sensitization	In case of inhalation or excluded.	skin contact a sensitizing effect can not be
Assessment of STOT single exposure	Assessment: The su organ toxicant, single e	ubstance or mixture is not classified as specific target exposure.
Assessment of STOT repeat exposure	Assessment: The su organ toxicant, repeate	ubstance or mixture is not classified as specific target ed exposure.
Risk of aspiration toxicity	No aspiration toxicity c	lassification
Mutagenicity assessment	<b>č</b> ,	xaminations (micro-organisms, cell cultures) show ve results, literature., Not mutagenic in Ames Test.

#### **SECTION 12: Ecological information**

<b>12.1. Toxicity</b> 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 (ADB/DID/CCV/SER)

Trans	sport on la	nd (ADR/RID/GGVSEB)			
14.1.	UN numb	er:	UN 1247		
14.2.	UN prope	r shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION		
14.3.	Transport	hazard class(es):	3		
14.4.	Packing g				
14.5.	Environm	ental hazards:			
14.6.	Special p	recautions for user:	Yes		
	ADR:	Tunnel Restriction Code: (D/E			
	ADR:	Measures as 2.2.3.2.2 ADR/R	ID/ADN have been applied., Observe listed materials regulation		
		§35, paragraph 1 GGVSEB			
	RID:	Measures as 2.2.3.2.2 ADR/R	ID/ADN have been applied.		
Inlan	d waterwa	y transport (ADN/GGVSEB (G	ermanv))		
	UN numb		UN 1247		
14.2.	UN prope	r shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED		
			SOLUTION		
14.3.	Transport	hazard class(es):	3		
14.4.	Packing g	jroup:	II		
14.5.	Environm	ental hazards:			
14.6.	Special p	recautions for user:	Yes		
	Measures	as 2.2.3.2.2 ADR/RID/ADN hav	<i>r</i> e been applied.		
Air tr	ansport IC	AO-TI/IATA-DGR			
14.1.	UN numb	er:	UN 1247		
14.2.	UN prope	r shipping name:	Methyl methacrylate monomer, stabilized solution		
		hazard class(es):	3		
	Packing g	( )	II		
	00	•			

	TA SHEET (EC 1907)	2006)			
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<ul> <li>4.5. Environmental hazards:</li> <li>4.6. Special precautions for user: IATA-C: ERG-Code 3L IATA-P: ERG-Code 3L</li> </ul>		 Yes			
14.1. UN numbe	IDG-Code/GGVSee (Gerr r: shipping name:	UN 1247	CRYLATE MONOM	ER, STABILIZED	
<ul><li>14.4. Packing gr</li><li>14.5. Environme</li><li>14.6. Special pre EmS:</li></ul>	•	3 II  Yes F-E,S-D	3 II  Yes		
147 Transporti	n hulk according to Annov		d the IPC Codes		

<sup>14.7.</sup> Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transportapproval 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 Regulatione is required for this product.

#### **SECTION 16: Other information**

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

		Highly flammable liquid and vapour. Causes skin irritation.
H317	:	May cause an allergic skin reaction. May cause respiratory irritation.
		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	European Agreement concerning the International Carriage of Dangerous Goods by
ADR	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	a on Industrial Safety an	d Health			
C.C.	German Ordinance on Industrial Safety and Health 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	<b>GGVSEB</b> German ordinance for road, rail and inland waterway transportation of dangerous					
CCVSaa	goods					
GGVSee GLP	German ordinance for sea transportation of dangerous goods					
GMO	Good Laboratory Practice					
IATA	Genetic Modified Organism					
ICAO	International Air Transport Association 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					
0. C.	open cup					
OECD	Organisation for Economic Cooperation and Development					
OEL	Occupational Exposure Limit					
PBT PEC	Persistent, bioaccumulative, toxic 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					
ТА	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 German Administrative Regulation on the Classification of Substances Hazardous to					
VwVwS		•	Classification of SU			
WGK	Waters into Water Hazard Classes Water Hazard Class					
WHO	Water Hazard Class World Health Organization					
	Trong hould by					