

SAFETY DATA SHEET (EC 1907/2006)**Lucitone Digital Fuse™ Step 1 - 3D Tooth Conditioning Agent**

Version: 1.0 / GB
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Material no.
Specification 187870
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 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	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness. H360Df - May damage the unborn child. Suspected of damaging fertility. EUH066 - Repeated exposure may cause skin dryness or cracking.
Precautionary statement: Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 - Use non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement: Reaction	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice/ attention. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 - Call a POISON CENTER or doctor/ physician if you feel unwell. P308 + P313 - IF exposed or concerned: Get medical advice/ attention.
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 according to the local / regional/national/international waste disposal regulations.

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 acetate		>= 50% - <= 80%			
CAS-No.	79-20-9	EC-No.	201-185-2	Category 2	H225
Flammable liquids				Category 2	H319
Eye irritation					

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Specific Target Organ Toxicity - Single exposure		Category 3	H336
• Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide <= 0.5%			
CAS-No.	75980-60-8	EC-No.	278-355-8
Reproductive toxicity		Category 2	H361f
• tetrahydrofurfuryl methacrylate >= 1% - <= 10%			
CAS-No.	2455-24-5	EC-No.	219-529-5
Eye irritation		Category 2	H319
Specific target organ toxicity - single exposure		Category 3	H335
Skin irritation		Category 2	H315
• Methacrylic acid <= 0.2%			
CAS-No.	79-41-4	EC-No.	201-204-4
• 1,6-hexanediol 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****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
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**

• methyl acetate			
CAS-No.	79-20-9	EC-No.	201-185-2
Control parameters	200 ppm 616 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	250 ppm 770 mg/m ³		Short Term Exposure Limit (STEL):(EH40 WEL)
• Methacrylic acid			
CAS-No.	79-41-4	EC-No.	201-204-4
Control parameters	20 ppm 72 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)

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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**

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 liquid
 Colour yellow
 physical state liquid

Odour like fruit

Odour threshold: no data available

pH 6.8 - 7.2

Melting point/freezing point -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 no data available
Autoinflammability 501 °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**10.1. Reactivity**

No further information available

10.2. Chemical stability

Under normal conditions: stable.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Possibility of hazardous reactions include volumetric expansion and a risk of container rupture.

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: Hexane-1,6-diol diacrylate
LD50 Rat: > 5000 mg/kg
Related to substance: methyl acetate
LD50 Rat: 120 mg/kg
Related to substance: methacrylic acid
Acute inhalation toxicity LC50 Rat: 7.1 mg/l / 4 h
Related to substance: methacrylic acid
Acute dermal toxicity LD50 Rabbit: > 5000 mg/kg
Related to substance: methyl acetate
LD50 Rabbit: 1000 - 15000 mg/kg
Related to substance: methacrylic acid
LD50 Rabbit: 3600 mg/kg
Related to substance: Hexane-1,6-diol diacrylate

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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	no data available
Assessment of STOT repeat exposure	Assessment: May cause damage to organs through prolonged or repeated exposure.
Risk of aspiration toxicity	No aspiration toxicity classification
Mutagenicity assessment	Did not show mutagenic effects in animal experiments.
Further information	May cause eye and skin irritation.

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

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 degradability

Biodegradability	Readily biodegradable. Related to substance: methyl acetate
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12.3. Bioaccumulative potential

Bioaccumulation	no data available
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12.4. Mobility in soil

Mobility	no data available
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12.5. Results of PBT and vPvB assessment**12.6. Other adverse effects**

Further Information	no data available
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SECTION 13: Disposal considerations

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**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 1231
14.2. UN proper shipping name:	METHYL ACETATE
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: Observe listed materials regulation §35, paragraph 1 GGVSEB	

Inland waterway transport (ADN/GGVSEB (Germany))

14.1. UN number:	UN 1231
14.2. UN proper shipping name:	METHYL ACETATE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No

Air transport ICAO-TI/IATA-DGR

14.1. UN number:	UN 1231
14.2. UN proper shipping name:	Methyl acetate
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
14.5. Environmental hazards:	--
14.6. Special precautions for user:	Yes
IATA-C: ERG-Code 3H	
IATA-P: ERG-Code 3H	

Sea transport IMDG-Code/GGVSee (Germany)

14.1. UN number:	UN 1231
14.2. UN proper shipping name:	METHYL ACETATE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No
EmS:	F-E,S-D

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.

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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 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

H225 : Highly flammable liquid and vapour.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H335 : 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.

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Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism

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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