SAFETY DATA	SHEET (EC 1907/2	006)		
Lucitone 199, Liqu	lid			
Lucitone 199 Repa	air Material, Liquid			
Lucitone FAS-POF	R, Liquid			
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name	Lucitone 199, Liquid Lucitone 199 Repair Material, Liquid Lucitone FAS-POR, Liquid
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]

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

2.2. Label elements

Labelling as per (EU) 1272/2008

Statutory basis

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

hazard-defining component(s) (GHS)

- methyl methacrylate
- ethylene dimethacrylate
- Hazard pictograms



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Lucitone FAS-POR,	Liquid							
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Signal word	Danger							
Hazard statement	H315 - Causes H317 - May ca	lammable liquid and vap skin irritation. use an allergic skin react use respiratory irritation.	tion.					
Precautionary statement: Prevention	P260 - Do not	rotective gloves/ eye pro- breathe dust/ fume/ gas/ way from heat, hot surfac noking.	mist/ vapours/ spra	ay.				
Precautionary statement: Storage	P403 + P233 -	Store in a well-ventilated	d place. Keep conta	iner tightly closed.				
Precautionary statement: Disposal	P501 - Dispose	e of contents/container in	accordance with lo	ocal regulation.				

2.3. Other hazards

When heated, formation of explosive vapour/air mixtures., Danger of bursting of closed systems to vigorous exothermic polymerization. Avoid uncontrolled polymerization. A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

SECTION 3: Composition/information on ingredients

Chemical nature

The preparation contains:, stabilisers

3.1. Substances

3.2. Mixtures

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

methyl methacrylate		80% - 100%		
CAS-No. 80-62-6 Flammable liquids Skin corrosion/irritation Skin Sensitisation Specific Target Organ Tox	EC-No. icity - Single exposure	201-297-1	Category 2 Category 2 Category 1 Category 3	H225 H315 H317 H335
ethylene dimethacryl	ate	1% - 20%		
CAS-No. 97-90-5 Skin Sensitisation Specific Target Organ Tox	EC-No. icity - Single exposure	202-617-2	Category 1 Category 3	H317 H335

Texts of H phrases, see in Chapter 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Take off all contaminated clothing immediately.

Inhalation

Move victims into fresh air. Obtain medical attention.

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Skin contact

Wash off immediately with soap and plenty of water. Obtain medical attention.

Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 5 minutes. Consult an ophthalmologist.

Ingestion

Do NOT induce vomiting. Have the mouth rinsed with water. Have patient drink plenty of water in small sips. Obtain medical attention.

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

Symptoms

No information available.

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

If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not beallowed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

quenching powder Carbon dioxide (CO2) Alcohol-resistant foam

Unsuitable extinguishing media: Water

5.2. Special hazards arising from the substance or mixture

In case of combustion or decomposition of the product, the fumes produced lead to irritations or inflammations of the respiratory tract. When heated, formation of explosive vapour/air mixtures.

5.3. Advice for firefighters

In case of fire cool containers or take them to a safe place. Use water spray to cool unopened containers. In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Keep unauthorized persons away. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions Prevent substance from entering soil, natural bodies of water and sewer systems., Avoid penetration into drainage system or in rooms situated at a lower level because of danger of explosion.

6.3. Methods and material for containment and cleaning up

Remove all sources of ignition. Absorb with liquid-binding material, e.g. inert absorbent, sand, universal binding agents. Pick up mechanically with a suitable device and collect in a suitable container.

Additional advice

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Ensure explosion proofness. Dispose of contaminated material as a waste in a correct manner.

6.4. Reference to other sections

Wear personal protective equipment; see section 8. Disposal considerations; see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Always close container tightly after removal of product. Avoid light effect heat sun rays. Vapors are heavier than air. Only fill up to 90 % of the container as air is required to stabilize.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion Keep away from sources of ignition - No smoking.

product is highly flammable.

Vapours are heavier than air and may spread along floors.

Formation of flammable or explosive vapour/air mixtures possible. Danger of explosion

Explosion-proof installations required.

Take precautionary measures against static discharges.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

Ensure there is good room ventilation.

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.

Personal protective equipment

Respiratory protection

If workplace exposure limit is exceeded apply Respirator with brown A-type filter.

Hand protection

Wear protective gloves made of the following materials: solvent-resistant material.Glove materialbutyl-rubberMaterial thickness0.5 mmBreak through time60 minMethodSource: GESTIS substance database (hazardous substance information system of commercial professional associations)

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The suitability for a specific workplace should be discussed with the producers of the protective gloves., The exact break through time can be obtained from the protective glove producer and this has to be observed.

Preventive skin protection, Use barrier cream regularly.

Eye/face protection

goggles

Skin and body protection

Immediately change moistened and saturated work clothes., Apply adequate skin protection agents before handling the product. Assure skin cleaning and skin care after work. Preventive skin protection is recommended.

Hygiene measures

Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work., If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used., Avoid contact with skin and eyes., After contact with skin, wash immediately with plenty of water., If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Form Colour	liquid colourless	
Odour	ester-like	
Odour threshold:	no data available	
рН	not applicable	
Melting point/range	-48.2 °C tested substance: methyl methacrylate	
Boiling point/range	100.3 °C (1013 hPa) Method: DIN 51 751 tested substance: methyl methacrylate	
Flash point	10 °C Method: DIN 51 755 tested substance: methyl methacrylate	
Evaporation rate	no data available	
Flammability (solid, gas)	no data available	
Lower explosion limit	2.1 %(V)	
	tested substance: methyl methacrylate	
Upper explosion limit	12.5 %(V) tested substance: methyl methacrylate	

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	Vapour pressure	38.7 hPa tested subs methyl metl			
	Density	0.94 g/cm3 Method: tested subs methyl metl	DIN 51757 tance:		
	Water solubility	15.9 g_l tested subs methyl metl			
	Partition coefficient: n- octanol/water	POW: tested subs methyl metl			
	Autoinflammability	Not capable	e of spontaneous com	bustion or heating	j .
	Thermal decompositio	n no data ava	ilable		
	Viscosity, dynamic	0.63 mPa.s Method: tested subs methyl metl	Brookfield method tance:		
	Explosiveness	Vapours ca	n form explosive mixt	ures with air.	
	Oxidizing properties	no data ava	ilable		
).2.	Other information Ignition temperature	430 °C Method:	DIN 51 794 tance:, methyl metha	crylate	
	Other information	No further p	hysicochemical data	were determined.	

SECTION 10: Stability and reactivity

10.1. Reactivity Vapours may form explosive mixture with air.10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous
reactionsDanger of bursting of closed systems to vigorous exothermic
polymerization. Avoid uncontrolled polymerization.

10.4. Conditions to avoid

Avoid exposure to light /sunlight, Protect from heat sources of ignition.

10.5. Incompatible materials

Product polymerizes on contact with radical generating substances such as peroxides, azo compounds, heavy metal compounds, solutions.

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10.6. Hazardous decomposition products Heating can release vapours which can be ignited.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity		OECČ	/kg Test Guideline 401 I methacrylate
Acute inhalation toxicity	LC50 Rat: 29.8 Test substance: (literature value)	methy	4 h I methacrylate
Acute dermal toxicity	LD50 Rabbit: > Test substance: literature		mg/kg I methacrylate
Skin irritation	irritating Test substance: literature	methy	l methacrylate
Eye irritation	slightly irritating Test substance: literature	methy	l methacrylate
Sensitization			on by skin contact. I methacrylate
Repeated dose toxicity	inhalative Rat Testing period: NOAEL: target organ/effect: Test substance: literature		2 Jahre 25 mg/kg irritative effects, skin linings methyl methacrylate
	Oral Rat Testing period: NOAEL: Test substance: drinking water at	nalysis	2 Jahre 2000 mg/kg methyl methacrylate s, no therapy-related results, literature
Assessment of STOT single exposure	no data available	е	
Assessment of STOT repeat exposure	no data available	е	
Risk of aspiration toxicity	no data available	е	
Gentoxicity in vitro	positive and neg Test substance: literature		l methacrylate
Gentoxicity in vivo	no evidence of r	nutage	enic effects

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		Test substance: literature	methyl methaci	ylate			
Mutagenicity asses	ssment	in vivo: no evi	dence of mutager	nic effects			
carcinogenicity ass	sessment	no evidence that cancer may be caused, literature., tested substance:, methyl methacrylate					
Toxicity to reprodu	iction	no data availa	able				
teratogenicity asse	essment	no evidence c methacrylate	of teratogenic prop	erties, tested subs	stance:, methyl		
Human experience	9	Frequent and skin sensitizat		ntact can cause ski	in reaction (skin irritation,		

SECTION 12: Ecological information

12.1.	Toxicity Toxicity to fish	LC50 Lepomis macrochirus: 191 mg/l / 96 h Test substance: methyl methacrylate literature
		Oncorhynchus mykiss: > 79 mg/l / 96 hTest substance:methyl methacrylateMethod:OECD 203literature
	Toxicity in aquatic invertebrates	EC50 Daphnia magna: 68 mg/l / 48 h Test substance: methyl methacrylate Method: OECD 202 (literature value)
		EC50 Daphnia magna: 49 mg/l / 21 d Test substance: methyl methacrylate Method: OECD 202 part 2 (literature value)
	Toxicity to algae	EC50 selenastrum capricornutum: 170 mg/l / 96 hTest substance:methyl methacrylateMethod:OECD 201literature
	Toxicity to bacteria	EC0 Pseudomonas putida: 100 mg/l Test substance: methyl methacrylate literature
12.2.	Persistence and degrada	ability

Biodegradability	Exposure time:	14 Tage
	Result:	94 % Readily biodegradable.
	Test substance:	methyl methacrylate

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			Metho	od:	OECD 301 C		
2.3.	Bioaccum Bioaccumula			ificant bio	accumulation need	not be expected.	
2.4.	Mobility in	soil					
	Mobility			e product groundwa		it will become mo	bile and might pollute
12.5.	Results o	f PBT and	l vPvB ass	essment			
	A PBT/vPv carried out		ion is not a	vailable, s	since a chemical sa	fety evaluation is	not required / has not beer
	6. Other adverse effects Further Information Introduction into soil, natural water bodies or sewerage must be prevented.						
2.6.				duction in	nto soil, natural wate	er bodies or sewe	rage must be prevented.
	Further Infor	mation	Intro		nto soil, natural wate	er bodies or sewe	rage must be prevented.
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		ATA SHEET (EC 1907/20	06)				
	itone 199	· •					
Luc	itone 199	Repair Material, Liquid					
Luc	itone FAS	S-POR, Liquid					
Vers	sion:	3.12 / GB	Material no.				
_	sion date:	13.11.2017	Specification	142124	Dentsply Sirona		
	e date:	14.02.2003	VA-Nr	01906661	Sirona		
	aces version						
Page	e:	10 / 12					
A : 4							
	UN numb	AO-TI/IATA-DGR	UN 1247				
				to monomor otobili	and colution		
		r shipping name: hazard class(es):	3	Methyl methacrylate monomer, stabilized solution			
	Packing g		3 				
		ental hazards:	11				
			 Yes				
14.0.	IATA-C:	ecautions for user:	res ing in, by or via USA note of the Reportable Quantity-				
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14.2.	UN prope	r shipping name:		CRYLATE MONOM	IER, STABILIZED		
			SOLUTION				
		hazard class(es):	3				
	 Packing group: 		II				
		ental hazards:					
14.6.	Special pr	ecautions for user:	Yes				
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		ving quarters., FOR USA ONL	Y: When shipping in,	by or via USA note	of the Reportable		
	Quantity-F	Regulation!					

14.7. 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

employment restriction Note employment restrictions for pregnant and lactating women., Note employment restrictions for minors.

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

Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)

Classification	Classification procedure
Flam. Liq., 2 , H225	
Skin Corr./Skin Irrit., 2, H315	
Skin.sens., 1 , H317	
STOT SE, 3 , H335	

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.

 SAFETY DATA SHEET (EC 1907/2006)

 Lucitone 199, Liquid

 Lucitone 199 Repair Material, Liquid

 Lucitone FAS-POR, Liquid

 Version:
 3.12 / GB

 Revision date:
 13.11.2017

 Issue date:
 14.02.2003

Revision date: Issue date: replaces version: Page:	13.11.2017 14.02.2003 3.11 11 / 12	Specification VA-Nr	142124 01906661	Dentsply Sirona
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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 EC50	European Inventory of Existing Commercial Chemical Substances half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous
GGVJLD	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
0. 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

SAFETY DATA SHEET (EC 1907/2006) Lucitone 199, Liquid Lucitone 199 Repair Material, Liquid Lucitone FAS-POR, Liquid							
Lucitone FAS-POR, LiquidVersion:3.12 / GBMaterial no.Revision date:13.11.2017Specification142124Issue date:14.02.2003VA-Nr01906661replaces version:3.11VA-Nr01906661Page:12 / 12VA-Nr01906661							
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