

SAFETY DATA SHEET (EC 1907/2006)**Lucitone 199, Liquid****Lucitone 199 Repair Material, Liquid****Lucitone FAS-POR, Liquid**

Version:	3.12 / GB	Material no.	0D682007
Revision date:	13.11.2017	Specification	142124
Issue date:	14.02.2003	VA-Nr	01779070
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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)6181/59-5767
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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Signal word	Danger
Hazard statement	H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.
Precautionary statement: Prevention	P280 - Wear protective gloves/ eye protection/ face protection. P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautionary statement: Storage	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Precautionary statement: Disposal	P501 - Dispose of contents/container in accordance with local 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	EC-No.	201-297-1		
Flammable liquids				Category 2	H225
Skin corrosion/irritation				Category 2	H315
Skin Sensitisation				Category 1	H317
Specific Target Organ Toxicity - Single exposure (inhalation)				Category 3	H335
• ethylene dimethacrylate		1% - 20%			
CAS-No.	97-90-5	EC-No.	202-617-2		
Skin Sensitisation				Category 1	H317
Specific Target Organ Toxicity - Single exposure				Category 3	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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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.	80-62-6	EC-No.	201-297-1
Control parameters	100 ppm		Short Term Exposure Limit (STEL):(EH40 WEL)
	416 mg/m3		
Control parameters	50 ppm		Time Weighted Average (TWA):(EH40 WEL)
	208 mg/m3		

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 material butyl-rubber

Material thickness 0.5 mm

Break through time 60 min

Method Source: 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	liquid
Colour	colourless

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

Vapour pressure 38.7 hPa (20 °C)
tested substance:
methyl methacrylate

Density 0.94 g/cm³ (20 °C)
Method: DIN 51757
tested substance:
methyl methacrylate

Water solubility 15.9 g/l (20 °C)
tested substance:
methyl methacrylate

Partition coefficient: n-octanol/water POW: 1.38
tested substance:
methyl methacrylate

Autoinflammability Not capable of spontaneous combustion or heating.

Thermal decomposition no data available

Viscosity, dynamic 0.63 mPa.s (20 °C)
Method: Brookfield method
tested substance:
methyl methacrylate

Explosiveness Vapours can form explosive mixtures with air.

Oxidizing properties no data available

9.2. Other information

Ignition temperature 430 °C
Method: DIN 51 794
tested substance: methyl methacrylate

Other information No further physicochemical 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 reactions Danger 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.

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**10.5. Incompatible materials**

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

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	LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401 Test substance: methyl methacrylate literature
Acute inhalation toxicity	LC50 Rat: 29.8 mg/l / 4 h Test substance: methyl methacrylate (literature value)
Acute dermal toxicity	LD50 Rabbit: > 5000 mg/kg Test substance: methyl methacrylate literature
Skin irritation	irritating Test substance: methyl methacrylate literature
Eye irritation	slightly irritating Test substance: methyl methacrylate literature
Sensitization	May cause sensitisation by skin contact. Test substance: methyl methacrylate literature
Repeated dose toxicity	inhalative Rat Testing period: 2 Jahre NOAEL: 25 mg/kg target organ/effect: irritative effects, skin linings Test substance: methyl methacrylate literature Oral Rat Testing period: 2 Jahre NOAEL: 2000 mg/kg Test substance: methyl methacrylate drinking water analysis, no therapy-related results, literature
Assessment of STOT single exposure	no data available
Assessment of STOT repeat exposure	no data available
Risk of aspiration toxicity	no data available
Gentoxicity in vitro	positive and negative

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	Test substance: methyl methacrylate literature
Gentotoxicity in vivo	no evidence of mutagenic effects Test substance: methyl methacrylate literature
Mutagenicity assessment	in vivo: no evidence of mutagenic effects
carcinogenicity assessment	no evidence that cancer may be caused, literature., tested substance:, methyl methacrylate
Toxicity to reproduction	no data available
teratogenicity assessment	no evidence of teratogenic properties, tested substance:, methyl methacrylate
Human experience	Frequent and continual skin contact can cause skin reaction (skin irritation, skin sensitization).

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

Toxicity to fish	LC50 <i>Lepomis macrochirus</i> : 191 mg/l / 96 h
	Test substance: methyl methacrylate literature
Toxicity in aquatic invertebrates	<i>Oncorhynchus mykiss</i> : > 79 mg/l / 96 h
	Test substance: methyl methacrylate
	Method: OECD 203 literature
Toxicity to algae	EC50 <i>Daphnia magna</i> : 68 mg/l / 48 h
	Test substance: methyl methacrylate
Toxicity to bacteria	EC50 <i>Daphnia magna</i> : 49 mg/l / 21 d
	Test substance: methyl methacrylate
Toxicity to algae	EC50 <i>selenastrum capricornutum</i> : 170 mg/l / 96 h
	Test substance: methyl methacrylate
Toxicity to bacteria	Method: OECD 202 (literature value)
	Method: OECD 202 part 2 (literature value)
Toxicity to algae	EC50 <i>Pseudomonas putida</i> : 100 mg/l
	Test substance: methyl methacrylate literature

12.2. Persistence and degradability

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Biodegradability	Exposure time:	14 Tage
	Result:	94 % Readily biodegradable.
	Test substance:	methyl methacrylate
	Method:	OECD 301 C

12.3. Bioaccumulative potential

Bioaccumulation Significant bioaccumulation need not be expected.

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

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6. Other adverse effects

Further Information Introduction into soil, natural water bodies or sewerage must be prevented.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Product**

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

SECTION 14: Transport information**Transport on land (ADR/RID/GGVSEB)**

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

Inland waterway transport (ADN/GGVSEB (Germany))

14.1. UN number:	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION
14.3. Transport hazard class(es):	3

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- 14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
Measures as 2.2.3.2.2 ADR/RID/ADN have been applied.

Air transport ICAO-TI/IATA-DGR

- 14.1. UN number: UN 1247
14.2. UN proper shipping name: Methyl methacrylate monomer, stabilized solution
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
IATA-C: FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!
IATA-P: FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

Sea transport IMDG-Code/GGVSee (Germany)

- 14.1. UN number: UN 1247
14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
EmS: F-E,S-D
Clear of living quarters., FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-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 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
Fam. 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.

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
IATA International Air Transport Association
ICAO International Civil Aviation Organization

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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