

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

1.1. Product identifier

LCR

CAS-Nr.: -
EG-Nr.: -
INDEX-Nr.: -
REACH-Nr.: -

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Manufacture.
Uses advised against: Private households (= general public).

1.3. Details of the supplier of the safety data sheet

Manufacturer

pro3dure medical GmbH
Am Burgberg 13
D 58642 Iserlohn

Telephone +49 (0)2374 920050-10
Telefax: +49 (0)2374 920050-50

Supplier

pro3dure medical GmbH
Am Burgberg 13
D 58642 Iserlohn

Telephone +49 (0)2374 920050-10
Telefax: +49 (0)2374 920050-50

Information contact

pro3dure medical GmbH

Information telephone +49 (0)2374 920050-10
Information telefax +49 (0)2374 920050-50
E-mail (competent person) info@pro3dure.com
Website www.pro3dure.com

1.4. Emergency telephone number

This number is serviced during office hours.

Telephone +49 (0)2374 920050-10

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008:
Skin Sens. 1/1A/1B, H317

2.2. Label elements

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



GHS07

Warning

Signal word:

Hazard statements:

H317 May cause an allergic skin reaction.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+352 IF ON SKIN: Wash with plenty of water.

P321 Specific treatment (see info on label).

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P362+364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container according to official regulations.

Hazardous component(s) for labelling:

Diurethane dimethacrylate, isomeric mixture.

Special labelling of particular preparations:

Safety data sheet available for professional user on request.

2.3. Other hazards

See attached safety data sheets and/or usage instructions.

SECTION 3: Composition / information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

-

Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	276-957-5	72869-86-4			>75	Skin Sens. 1/1A/1B, H317
Diphenyl-(2,4,6-trimethylbenzoyl)phosphine oxide	278-355-8	75980-60-8			<2	Repr. 2, H361
(+)-Camphorquinone	233-814-1	10373-78-1			<1	-
4-Dimethylamino-benzoic acid ethylester		10287-53-3			<1	-

(Full text of H- and EUH-statements: see section 16.)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Take off immediately all contaminated clothing. When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and

In case of inhalation:	seek medical advice. Provide fresh air.
Following skin contact:	Wash immediately with: Water and soap
After eye contact:	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
After ingestion:	Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

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

-

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

-

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry extinguishing powder Dry sand
Unsuitable extinguishing media	Excess water

5.2. Special hazards arising from the substance or mixture

In case of fire: Wear self-contained breathing apparatus. Co-ordinate fire-fighting measures to the fire surroundings.

5.3. Advice for firefighters

General information

In case of fire and/or explosion do not breathe fumes. Co-ordinate fire-fighting measures to the fire surroundings.

Special protective equipment for fire-fighters:

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

-

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

All work processes must always be designed so that the following is excluded: Inhalation All work processes must always be designed so that the following is excluded: Inhalation

Precautions against fire and explosion:

Always close containers tightly after the removal of product. Use only in well-ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Only use the material in places where open light, fire and other flammable sources can be kept away. Use only in well-ventilated areas.

Hints on joint storage

-

7.3. Specific end use(s)

-

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

occupational exposure limit value

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m ³]	Limitation of exposure peaks:	Remark:

Substance with a common (EC) occupational exposure limit value.

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m ³]	Limitation of exposure peaks:	Remark:

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4	worker inhalative (systemic) 3,3 mg/m ³ worker dermal (systemic) 1,3 (mg/kg bw /24h) (Consumer) inhalative (systemic) 0,6 mg/m ³ (Consumer) dermal (systemic) 0,7 (mg/kg bw/24h) (Consumer) (systemic) 0,3 (mg/kg bw/24h)

PNEC Value

Substance:	CAS-No.:	PNEC
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4	(Fresh water) 0,01 mg/l (Marine water) 0,001 mg/l (Waste water) 3,61 mg/l (Fresh water sediment) 4,56 (mg/kg Sediment) (Marine sediment) 0,46 (mg/kg Sediment) soil 0,91 (mg/kg Soil)

Additional information

-

8.2. Exposure controls

Occupational exposure controls:

-

General protection and hygiene measures:

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

Personal protection equipment

-

Respiratory protection

-

Hand protection

Suitable gloves type: NBR (Nitrile rubber).

Eye/face protection

Eye glasses with side protection

Body protection:

lab coat

Environmental exposure controls

-

Consumer exposure controls

-

Exposure Scenario:

-

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Colour: various
Odour: -
Odour threshold: -

Safety relevant basis data

	parameter	Value	unit	Remark
pH:				No data available
Melting point/freezing point:				No data available
Initial boiling point and boiling range:				No data available
Flash point:		>150	°C	
Evaporation rate:				No data available
Flammability (solid, gas):				No data available
Explosivity:				No data available
Upper flammability or explosive limits:				No data available
lower flammability or explosive limits:				No data available
Vapour pressure:				No data available
Vapour density:				No data available
Relative density:				No data available
Density:		1,1	g/cm ³	
Soluble (g/L) in:				No data available
Water solubility (g/L):				No data available
Fat solubility (g/L):				No data available
Partition coefficient: n-octanol/water:				No data available
Ignition temperature:				No data available

Decomposition temperature:

No data available

Viscosity:

ca. 700- Pa*s
1200

Oxidizing properties:

No data available

9.2. Other information

-

SECTION 10: Stability and reactivity

10.1. Reactivity

-

10.2. Chemical stability

-

10.3. Possibility of hazardous reactions

-

10.4. Conditions to avoid

-

10.5. Incompatible materials

-

10.6. Hazardous decomposition products

-

SECTION 11: Toxicological information

11.1. Information on toxicological effects

-

M-factor:

-

Acute toxicity (dermal):

-

Acute toxicity (oral):

-

Acute toxicity (inhalative):

-

Acute toxicity

Substance:	CAS-No.:	Toxicological information
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4	LD50 oral (rat) > 5000 mg/kg

Skin corrosion/irritation:

-

Serious eye damage/irritation:

-

Respiratory or skin sensitisation:

-

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

-

Germ cell mutagenicity:

-

Reproductive toxicity:

-

STOT-single exposure:

-

STOT-repeated exposure:

-

Aspiration hazard:

-

SECTION 12: Ecological information

12.1. Toxicity

none

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4	> 1,2 mg/l > 0,68 mg/l

12.2. Persistence and degradability

-

12.3. Bioaccumulative potential

-

12.4. Mobility in soil

-

12.5. Results of PBT and vPvB assessment

-

12.6. Other adverse effects

none

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

List of proposed waste codes / waste designations according to EWC / AVV

-
Waste key product: -
Waste key packaging: -

SECTION 14: Transport information

14.1. UN number

UN No.: -

14.2. UN proper shipping name

Land transport (ADR/RID)

-
-

Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

-
-

14.3. Transport hazard class(es)

Hazard label(s) / Label: - Classification code: / Classification Code: -

14.4. Packing group

Packing group/ Packing Group: -

14.5. Environmental hazards

ADR/RID / IMDG / ICAO-TI / IATA-DGR:
Marine pollutant:

Yes

No

14.6. Special precautions for user

Land transport (ADR/RID)

transport category: - tunnel restriction code: -
Special provisions: - Limited quantity (LQ): -

Sea transport (IMDG)

EmS-No: -
Special provisions: - Limited quantity (LQ): -

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark -

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Information on Regulation (EC) No 166/2006 establishing a European Pollutant Release and Transfer Register:

-

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer:

-

Regulation (EC) No. 648/2004 (Detergents regulation)

-

Regulation (EC) No 850/2004 [POP-Regulation]:

-

Regulation (EU) No 649/2012 on the export and import of dangerous chemicals:

-

Use restriction according to REACH annex XVII, no.:

-

National regulations

Observe in addition any national regulations!

Restrictions of occupation

-

Other regulations, restrictions and prohibition regulations

-

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out.

-

SECTION 16: Other information

Relevant H- and EUH-phrases (Number and full text):
Hazard statements

Training advice

-

Recommended restrictions of use:

-

Further remarks:

-

Documentation of changes:

-

Key literature references and sources for data

-

Abbreviations and acronyms

-