

Material Safety Data Sheet according to (EC) 1907/2006



Tradename:

DURASPLINT flex monomer

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

1.1. Product identifier

Name of product: DURASPLINT flex monomer

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

Use of the substance/mixture

Powder / liquid system for production of dental moldings.

Uses advised against

Do not use for private purposes

1.3. Details of the supplier of the safety data sheet

Manufacturer

pro3dure GmbH
Am Burgberg 13
D-58642 Iserlohn
Tel. +49 (2374) 920050-10
Fax +49 (2374) 920050-50

eMail: info@pro3dure.com
Internet: www.pro3dure.com

1.4. Emergency telephone number: +49 (2374) 920050-10

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Irrit. 2, H315

Eye Irrit. 2, H319

STOT SE 3, H335

2.2. Label elements

Signal word: Warning

Pictograms: GHS07



Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements

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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: Wash with plenty of water/soap.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see ? on this label).

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P332+313	If skin irritation occurs: Get medical advice / attention.
P337+313	If eye irritation persists: Get medical advice / attention.
P362+364	Take off contaminated clothing and wash it before reuse.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container according to official regulations.

Hazardous component(s) for labelling:

Methacrylsäuretetrahydrofurfurylester

Special labelling of particular preparations:

none

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

Mixture related information

Hazardous components

EG-Nr.	Chemical name	Quantity
CAS-Nr.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Index-Nr.		
REACH-Nr.		
431-890-2	1,2-Cyclohexandicarbonsäurediisononylester	< 20 %
166412-78-8		
219-529-5	Methacrylsäuretetrahydrofurfurylester	< 40 %
2455-24-5	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
607-134-00-4		
219-135-3	Methacrylsäure-2-ethoxyethylester	< 50 %
2370-63-0		
607-134-00-4		

Full text of H- and EUH-phrases: see Section 16.

Additional information**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.

After inhalation: Provide fresh air. In case of respiratory tract irritation, consult a physician.

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- After contact with skin:** After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.
- After contact with eyes:** In case of contact with eyes rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
- After ingestion:** If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

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

Symptoms: No symptoms known up to now.

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

Provide with fresh air. In case of breathing difficulties give oxygen.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water fog. High power water jet. Carbon dioxide (CO₂). Dry extinguishing powder.

Unsuitable extinguishing media

-

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide.

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 firefighters:

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

Additional information

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove persons to safety. Provide adequate ventilation. Keep away from unprotected people. Keep upwind.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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). Treat the assimilated material as prescribed in the section on Waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Advice on safe handling

Observe instructions for use.

Precautions against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

occupational exposure limit value (TRGS 900)

Substance with a common (EC) occupational exposure limit value

DNEL/DMEL-Werte

PNEC-Wert

Additional information

None.

8.2. Exposure controls

Occupational exposure controls.

Provide adequate ventilation as well as local exhaustion at critical locations. Technical measures and the application of suitable work processes have priority over personal protection equipment.

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

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection required in case of: insufficient ventilation. Suitable respiratory protection apparatus: Self-contained respirator (breathing apparatus) (DIN EN 133)

Hand protection

Tested protective gloves are to be worn: DIN-/EN-Norms: DIN EN 374

Eye/face protection

Tightly sealed safety glasses.

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Body protection:

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Only well fitting, comfortable and clean protective clothing. Barrier creams are not substitutes for body protection.

Environmental exposure controls.

Refer to chapter 7. No further action is necessary.

Consumer exposure controls

Refer to chapter 7. No further action is necessary.

Exposure Scenario

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	characteristic like: ester
Odour threshold:	no data available

Safety relevant basis data

Density:	no data available
Bulk density:	no data available
pH:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	no data available
Flash point:	no data available
Flammability (solid, gas):	no data available
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Ignition temperature:	no data available
Decomposition temperature:	no data available
Oxidizing potential:	no data available
Vapour pressure:	no data available
Vapour density:	no data available
Evaporation rate:	no data available
Water solubility:	no data available
Fat solubility:	no data available
Soluble in:	no data available
Partition coefficient: n-octanol/water	no data available
Viscosity:	no data available
Solvent separation test:	no data available
Solvent content:	no data available

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with peroxides.

10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

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10.3. Possibility of hazardous reactions

Polymerisation.

10.4. Conditions to avoid

Heat. UV-radiation/sunlight

10.5. Incompatible materials

Peroxides

10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic. Carbon dioxide, Carbon monoxide.

Additional information**SECTION 11: Toxicological Information****11.1. Information on toxicological effects**

There are no data available on the mixture itself.

M-factor: -**Acute toxicity (oral):** -**Acute toxicity (dermal):** -**Acute toxicity (inhalative):** -**Acute toxicity**

CAS No.	Chemical name
166412-78-8	1,2-Cyclohexandicarbonsäurdiisononylester
2455-24-5	Methacrylsäuretetrahydrofurfurylester
2370-63-0	Methacrylsäure-2-ethoxyethylester

Skin corrosion/irritation:

Irritant.

Serious eye damage/irritation:

Strongly irritant.

Respiratory of skin sensitisation:

May cause sensitization especially in sensitive humans.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

There are no data available on the preparation/mixture itself. No indication of human carcinogenicity.

Bridging principle "Dilution".

Germ cell mutagenicity:

There are no data available on the preparation/mixture itself. No indication of human germ cell mutagenicity exist.

Bridging principle "Dilution".

Reproductive toxicity:

There are no data available on the preparation/mixture itself. No indication of human human reproductive toxicity exist.

Bridging principle "Dilution".

STOT-single exposure:

There are no data available on the preparation/mixture itself.

STOT-repeated exposure:

There are no data available on the preparation/mixture itself.

Aspiration hazard:

Irritant.

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

There are no data available on the preparation/mixture itself.

Ecotoxicity

CAS No.	Chemical name
166412-78-8	1,2-Cyclohexandicarbonsäurdiisononylester
2455-24-5	Methacrylsäuretetrahydrofurfurylester
2370-63-0	Methacrylsäure-2-ethoxyethylester

12.2. Persistence and degradability

There are no data available on the preparation/mixture itself.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

There are no data available on the preparation/mixture itself.

12.5. Results of PBT and vPvB assessment

There are no data available on the mixture itself.

12.6. Other adverse effects

There are no data available on the mixture itself.

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

Waste disposal according to applicable legislation.

Appropriate disposal / Package

Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

List of proposed waste codes/waste designations in accordance with EWC

Waste disposal according to applicable legislation.

Waste key product:

-

Waste key packaging:

-

SECTION 14: Transport Information**Land transport (ADR/RID)**

14.1. UN number:	No hazardous material according to transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packing group:	
Hazard label:	
Classification code:	
Special Provisions:	
Limited quantity:	
Transport category:	
Hazard No:	
Tunnel restriction code:	
Other applicable information (land transport)	

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Inland waterways transport (ADN)

14.1. UN number:	No hazardous material according to transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packing group:	
Hazard label:	
Classification code:	
Spezial Provisions:	
Limited quantity:	
Other applicable information (inland waterways transport)	

Marine transport (IMDG)

14.1. UN number:	No hazardous material according to transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packaging group:	
Hazard label:	
Special Provisions:	
Limited quantity:	
EmS:	
Other applicable information (marine transport):	

Air transport (ICAO)

14.1. UN number:	No hazardous material according to transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packaging group:	
Hazard label:	
Special Provisions:	
Limited quantity Passenger:	
IATA-packing instructions - Passenger:	
IATA-max. quantity - Passenger:	
IATA-packing instructions - Cargo:	
IATA-max. quantity - Cargo:	
Other applicable information (air transport)	
Passenger-LQ:	

14.5. Environmental hazards**14.6. Special precautions for user****14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Remark none

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:

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

none

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

none

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

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

Use restriction according to REACH annex XVII, no.: -

National regulatory information

Observe in addition any national regulations!

Restrictions of occupation

No information available.

Other regulations, restrictions and prohibition regulations

-

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other Information

Abbreviations and acronyms

ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
CAS	Chemical Abstracts Service
LC50	Lethal concentration, 50 %
LD50	Lethal dose, 50 %

Relevant H- and EUH-phrases (number and full text)

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Training advice

none

Recommended restrictions of use:

refer to chapter 1.

Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Documentation of changes: -

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

none