

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

1.1. Product identifier

Systemerm Cast

CAS No.: -
EC No.: -
INDEX No.: -
REACH No.: -

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

Diese Nummer ist nur zu Bürozeiten erreichbar
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:

Acute Tox. 4, H302; Eye Dam. 1, H318; Skin Sens. 1/1A/1B, H317; STOT RE 2, H373; Aquatic Chronic 3, H412

2.2. Label elements

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

Hazard pictograms



GHS05,GHS08
Danger

Signal word:

Hazard statements:

- H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage..
H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash .? thoroughly after handling.
P270 Do no eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+312 IF SWALLOWED: Call a POISON CENTER/doctor/.? if you feel unwell.
P302+352 IF ON SKIN: Wash with plenty of water/.?.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/.?.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment (see .? on this label).
P330 Rinse mouth.
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 to .?.

Hazardous component(s) for labelling:

Special labelling of particular preparations:

-

2.3. Other hazards

-

SECTION 3: Composition / information on ingredients

3.1. Substances

-

3.2. Mixtures

-

Composition/information on ingredients

| Substance: | EC-no.: | CAS-No.: | INDEX no.: | REACH-no.: | Concentration: | Classification: EC 1272/2008 (CLP): |
|--|-----------|-------------|--------------|------------|----------------|-------------------------------------|
| 4-Acryloylmorpholine | 610-626-1 | 5117-12-4 | 613-222-00-3 | | <95% | - |
| 2,6-Di-tert-butyl-4-methylphenol | 204-881-4 | 128-37-0 | | | <1% | - |
| Diphenyl-(2,4,6-trimethylbenzoyl)phos phinoxide | 278-355-8 | 75980-60-8 | | | <2% | Repr. 2, H361 |
| Phenyl-bis(2,4,6-trimethylbenzoyl)phos phinoxide | 423-340-5 | 162881-26-7 | 015-189-00-5 | | <2% | - |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

- General information:** In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.
- In case of inhalation:** Provide fresh air. In case of respiratory tract irritation, consult a physician.
- Following skin contact:** Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Call a physician immediately.
- 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:** Rinse mouth immediately and drink plenty of water. No administration in cases of unconsciousness or cramps. Do NOT induce vomiting. Call a physician immediately.

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

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

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SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media** Water fog. Carbon dioxide (CO₂). Foam. dry extinguishing powder.
- Unsuitable extinguishing media** -

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

Special protective equipment for fire-fighters:

-

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 recovered 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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray. Keep away from sources of ignition - No smoking.

Precautions against fire and explosion:

-

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. 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 |
|------------|----------|-----------|
| | | |

PNEC Value

| Substance: | CAS-No.: | PNEC |
|------------|----------|------|
| | | |

Additional information

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls

Occupational exposure controls:

-

General protection and hygiene measures:

-

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 necessary at: insufficient ventilation. Suitable respiratory protection apparatus: Protective respiration apparatus not using surrounding air (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. Eye-shade.

Body protection:

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

Environmental exposure controls

Do not allow to enter into surface water or drains.

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: | pale yellow |
| Odour: | characteristic like: ester |
| Odour threshold: | No data available |

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: | | | | No data available |
| 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: | at °C: ca. 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: | No data available |
| Oxidizing properties: | No data available |

9.2. Other information

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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

strong oxidizing agents. Polymerizing initiators. Free radicals. Peroxides.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

There are no data available on the mixture itself.

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

Acute toxicity

| Substance: | CAS-No.: | Toxicological information |
|------------|----------|---------------------------|
|------------|----------|---------------------------|

Skin corrosion/irritation:

Not an irritant.

Serious eye damage/irritation:

Risk of serious damage to eyes.

Respiratory or skin sensitisation:

May cause sensitization by inhalation and skin contact.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

No indications of human carcinogenicity exist.

Germ cell mutagenicity:

No data available

Reproductive toxicity:

No data available

STOT-single exposure:

No information available.

STOT-repeated exposure:

-

Aspiration hazard:

-

SECTION 12: Ecological information

12.1. Toxicity

-

Ecotoxicity

| Substance: | CAS-No.: | Ecotoxicity |
|------------|----------|-------------|
|------------|----------|-------------|

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the 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:

-

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. -

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

SECTION 16: Other information

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

Hazard statements

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage..

H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H412 Harmful to aquatic life with long lasting effects.

Training advice

-

Recommended restrictions of use:

-

Further remarks:

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

-

Abbreviations and acronyms

-
