

# MATERIAL SAFETY DATA SHEET

REVISION DATE: 19 April 2019

Version: 1.0

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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### 1.1 Product Identifiers

-Product Label: **Systherm B**  
Chemical family: alcohol / glycol mixture

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

-Relevant identified uses: polyurethane component

### 1.3 Details of the supplier of the Safety Data Sheet

-Company: pro3dure medical GmbH  
-Address: Am Burgberg 13  
D 58642 Iserlohn  
-Telephone: +49 (0)2374 920050-10 (Mon-Fri 9:00AM -5:00PM)  
-E-mail address: info@pro3dure.com

### 1.4 Emergency telephone number

-Emergency telephone number: +49 (0)2374 920050-10 (Mon-Fri 9:00AM -5:00PM)

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## SECTION 2: HAZARDS IDENTIFICATION

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### 2.1. Classification

Health 1  
Fire. 1  
Reactivity 0

Slightly hazardous in case of skin contact (irritant) or eye contact (irritant), of ingestion, of inhalation (lung irritant)

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### 3.1. Substances

Proprietary mixture of glycols.

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## SECTION 4: FIRST AID MEASURES

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### 4.1. Description of first-aid measures

#### 4.1.1. If inhaled

- Move to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, apply artificial respiration. Seek medical advice.

#### 4.1.2. In case of eye contact

- Rinse immediately with plenty of water and seek medical advice if irritation occurs.

#### 4.1.3. In case of skin contact

- Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

#### 4.1.4. If swallowed

- Rinse mouth and then drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

### 4.2. Most important symptoms/effects, acute and delayed

Irritating to skin or eyes.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**5.1 Flammability:** May be combustible at high temperature.

**5.2 Auto-ignition Temperature:** above 300C

**5.3 Products of combustion:** CO, CO2

### 5.4. Extinguishing media

- small fire: dry chemical powder  
- large fire: water spray, fog or foam.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### 6.1. Small spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### 6.2. Large spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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## SECTION 7: HANDLING AND STORAGE

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### 7.1. Precautions for safe handling

- Keep away from heat and sources of ignition.

### 7.2. Storage

- Keep containers tightly closed in a dry, cool and well-ventilated place. To maintain quality, keep away from heat and direct sunlight.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1. Appropriate Engineering Controls

Ensure adequate ventilation, especially in confined areas.

### 8.2 Individual protection measures

#### Skin protection

Safety glasses. Lab coat.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

**Exposure Limits:** Not available.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1. Physical and chemical properties

#### 9.1.1. General Information

Appearance:	clear liquid
Odor	none
Color	colorless

#### 9.1.2. Important health safety and environmental information

pH	not applicable
Melting point/freezing point	not applicable
Boiling point/boiling range	>300C
Flash point	>200C
Evaporation rate	No data available
Flammability	not flammable
Upper/lower flammability or explosive limits	No data available
Explosive properties	not relevant
Vapour pressure	no data
Vapour density	not applicable
Relative density	no data available
Surface Tension	No data available
Solubility	No data available
Partition coefficient: n-octanol/water	No data available no data available
Viscosity	no data
Oxidizing properties	not applicable

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1. Reactivity

no data available

### 10.2. Chemical Stability

- Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

- no hazardous reaction expected under normal handling.

### 10.5. Incompatible materials.

- strong acids. Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon oxides.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### Primary routes of exposure

Skin contact and ingestion.

### 11.1. Acute toxicity

- 11.1.1. Acute oral toxicity  
- 1525 mg/kg LD50 (rat)
- 11.1.2. Acute inhalation toxicity  
Not available
- 11.2. Skin corrosion/irritation**  
slightly irritating but not sufficient for classification.
- 11.3. Serious eye damage/eye irritation**  
No data
- 11.4. Respiratory or skin sensitization**  
no data available
- 11.6. Carcinogenicity**  
Not available
- 11.7. Mutagenicity**  
Not available
- 11.8. Toxicity for reproduction**  
Not available
- 11.9. Specific target organ toxicity**  
Not known

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## SECTION 12: ECOLOGICAL INFORMATION

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- 12.1. Toxicity**  
Not available.
- 12.2. **Persistence and degradability**  
Not available
- 12.3 Bioaccumulative potential**  
- No information
- 12.5. Mobility in Environmental Media**  
Not available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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- 13.1. Waste treatment methods**  
- Dispose in a safe manner in accordance with local/national regulations. Absorb and incinerate.

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## SECTION 14: TRANSPORT INFORMATION

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- 14.1. International transport regulations**
- |           |  |
|-----------|--|
| -USDOT    | - not classified as a dangerous good under transport regulations |
| -IATA DGR | - not classified as a dangerous good under transport regulations |
| -IMDG     | - not classified as a dangerous good under transport regulations |
| -ADR      | - Not regulated for transport                                    |
| -RID      | - Not regulated for transport                                    |
| -AND      | - Not regulated for transport                                    |

**Further information**

DOT: This product is regulated if the amount in a single receptacle exceeds the reportable quantity (RQ). See section 15.

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## SECTION 15: REGULATORY INFORMATION

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

--Global Chemical Inventories--

USA

EPCRA 311/1312 (Hazard categories):

NFPA Hazards:

Health: 1

Fire 1

Reactivity 0

HMIS III rating

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Health 1

Flammability 1

Physical hazard 0

## DISCLAIMER:

Pro3dure medical GmbH urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate. However, no warranty or representation of any kind, express or implied, is given, including any warranty of merchantability or fitness for a particular purpose nor shall Pro3dure medical GmbH indemnify any buyer against or be liable for any third party claims with respect to such information or any use thereof. Regulatory requirements are subject to change and may differ between various locations. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product.