

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

1.1. Product identifier

Systemerm A

CAS No.: 39349-83-2
UFI J6QH-RDRY-V913-C4M2

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

Relevant identified uses: Reserved for industrial and professional use.
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
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Information contact

pro3dure medical GmbH

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

1.4. Emergency telephone number

pro3dure medical GmbH
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:
Identification is not obligatory. Please observe the information on the safety data sheet at all times.

2.2. Label elements

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

Hazard pictograms



Signal word: GHS07
Warning

Hazard statements:

H317 May cause an allergic skin reaction.

Precautionary statements:

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.

Special labelling of particular preparations:

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2.3. Other hazards

See attached safety data sheets and/or usage instructions.

SECTION 3: Composition / information on ingredients

3.1. Substances

-

3.2. Mixtures

-

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Oxybispropanol-polymer with 1,6-diisocyanatohexane	39349-83-2		100 %	-	

(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: -

Following skin contact: After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician. Remove contaminated, saturated clothing immediately.

After eye contact: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Seek medical attention if problems persist.

After ingestion: Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. No administration in cases of unconsciousness or cramps. Call a physician immediately.

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

Causes skin and eye irritation.

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

Eyes: stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible cornea, epithelial edema impairing vision.

Skin: This compound is probable skin irritant. Treat symptomatically as for contact dermatitis or thermal burn.

Ingestion: treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Dry extinguishing powder Carbon dioxide (CO₂) Foam Water spray jet

Unsuitable extinguishing media High power water jet.

5.2. Special hazards arising from the substance or mixture

Combustible. May burn or bomb after heating. Reacts with amine, alcohols and hot water. Toxic vapors are released during combustion.

5.3. Advice for firefighters

General information

In case of fire: Wear self-contained breathing apparatus. Move undamaged containers from immediate hazard area if it can be done safely.

Special protective equipment for fire-fighters:

Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO₂ formed). Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between water and hot diisocyanate can be vigorous.

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.

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

For small amounts: absorb isocyanate with suitable absorbent material (sawdust, kitty litter). Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following decontamination solution: Mixture of 90% water, 8% concentrated ammonia, 2% detergent (Windex). Add at 10:1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.

For large amounts: Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal.

For residues: The following measures should be taken for final cleanup: wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes. Dike spillage.

6.4. Reference to other sections

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Wear personal protection equipment (refer to section 8). Thorough skin-cleansing after handling the product.

Precautions against fire and explosion:

Protect against moisture. If bulging of drum occurs, transfer to well ventilated area to relieve pressure, open vent and let stand vor 48 hours before re-sealing. Wear appropriate eye and skin protection to avoid contact. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Can be stored at least 9 month if in dry and tightly closed container and well ventilated. Suitable materials for containers: Carbon steel, stainless stell, HDPE, LDPE

Hints on joint storage

Do not store together with: Food and feedingstuffs, Acids, Bases

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

-

8.2. Exposure controls

Occupational exposure controls:

-

General protection and hygiene measures:

Wear protectiv clothing as necessary to prevent contact. Eye wash fountains and safety showers must be easily accessible. Observe the appropriate PEL or TLV value. Wash soiled clothing immediately. Contaminated equipment or clothing should be cleaned after each use or disposed of.

Personal protection equipment

Protective gloves, safety glasses, protective gown

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Hand protection

chemical resistant protective gloves should be worn to prevent all skin contact.
Suitable materials: Neoprene, nitrile rubber, chlorinated polyethylene, PVC, butyl rubber.

Eye/face protection

safty glasses. Wear face shield if splashing hazard exists.

Body protection:

Prevent all skin contact. Suitable materials may include saran-coated materials.

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: transparent
Odour: none
Odour threshold:

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:				
Initial boiling point and boiling range:	>	200	°C	
Flammability:				
lower flammability or explosive limits:				
Upper flammability or explosive limits:				
Flash point:				
Ignition temperature:				
Decomposition temperature:				
pH:				
Kinematic viscosity:		5	Pa*s	
Water solubility (g/L):				
Partition coefficient: n-octanol/water:				
Vapour pressure:	<	0.5	mmHg @ 120°C	
Density:				
Relative density:				
Particle properties:				

9.2. Other information

none

SECTION 10: Stability and reactivity

10.1. Reactivity

Not oxidizing. Not corrosive to metals.

10.2. Chemical stability

Stable under recommended storage conditions.

Can decompose to moomeric products at temperatures >160°C.

10.3. Possibility of hazardous reactions

Reacts with water to form carbon dioxide. Reacts with alcohols. Reacts with acids. Reacts with alkalis. Reacts with amines. Danger of exothermic reaction. Risk of polymerisation. Contact with certain rubbers or plastics may cause brittleness, weakening them.

10.4. Conditions to avoid

moisture.

10.5. Incompatible materials

Acid Amines Alcohols Water Alkali (lye)

10.6. Hazardous decomposition products

Carbon monoxide Carbon dioxide Nitrogen oxides (NOx) Hydrogen cyanide (hydrocyanic acid) Isocyanate Isocyanide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

none

M-factor: -

Acute toxicity (dermal): -

Acute toxicity (oral): -

Acute toxicity (inhalative): -

Acute toxicity

Substance:	CAS-No.:	Toxicological information
Oxybispropanol-polymer with 1,6-diisocyanatohexane	39349-83-2	

Skin corrosion/irritation:

Not an irritant.

Serious eye damage/irritation:

Not an irritant.

Respiratory or skin sensitisation:

sensitising.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

-

Germ cell mutagenicity:

-

Reproductive toxicity:

-

STOT-single exposure:

-

STOT-repeated exposure:

-

Aspiration hazard:

sensitising.

SECTION 12: Ecological information

12.1. Toxicity

-

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
Oxybispropanol-polymer with 1,6-diisocyanatohexane	39349-83-2	

12.2. Persistence and degradability

-

12.3. Bioaccumulative potential

-

12.4. Mobility in soil

-

12.5. Results of PBT and vPvB assessment

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12.6 Endocrine disruptive effect

12.7. Other adverse effects

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Emptied containers contain residues of the product. All precautionary measures as for the product must be observed. Do not reuse without commercial cleaning. Before disposal, remove remove all product residues before disposal.

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

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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: -

Special provisions: -

tunnel restriction code: -

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

none

Other regulations, restrictions and prohibition regulations

none

15.2. Chemical Safety Assessment

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

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

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

Hazard statements

H317 May cause an allergic skin reaction.

Training advice

none

Recommended restrictions of use:

Reserved for industrial and professional 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:

Changes compared to version 1:

1.1 UFI-code added.

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

none