

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

1.1. Product identifier

Systherm SPT-2 Separator

UFI KA1Q-AUSX-W24H-Q8AF

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

Relevant identified uses: Release agent
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:

Supplier

pro3dure medical GmbH

Am Burgberg 13
D 58642 Iserlohn

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

Information contact

pro3dure medical GmbH

Information telephone +49 (0)2374 920050-10
Information telefax
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

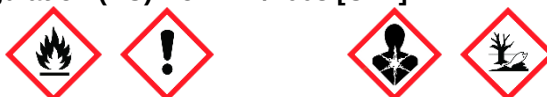
2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008:
Flam. Liq. 2, H225; Skin Irrit. 2, H315; STOT SE 3, H336; Asp. Tox. 1, H304; Aquatic Chronic 2, H411

2.2. Label elements

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

Hazard pictograms



GHS02, GHS07, GHS08, GHS09
Danger

Signal word:

Hazard statements:

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241.1 Use explosion-proof ventilating equipment.
P241.2 Use explosion-proof lighting equipment.
P241.3 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+310.1 IF SWALLOWED: Immediately call a POISON CENTER.
P301+310.2 IF SWALLOWED: Immediately call a doctor.
P302+352.1 IF ON SKIN: Wash with plenty of soap and water.
P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P331 Do NOT induce vomiting.
P332+313 If skin irritation occurs: Get medical advice/attention.
P362+364 Take off contaminated clothing and wash it before reuse.
P370+378.4 In case of fire: Use sand, extinguishing powder or alcohol-resistant foam to extinguish.
P391 Collect spillage.
P403+233 Store in a well-ventilated place. Keep container tightly closed.
P403+235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local and national regulations.

Special labelling of particular preparations:

Hazardous component(s) for labelling: Petroleum benzine 60-95

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

No endocrine-disrupting properties known (see section 12)

CA Proposition 65 : Substance(s) not listed.

SECTION 3: Composition / information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Mixture related information

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Petroleum benzine 60-95		01-2119475514-35-XXXX	< 80	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 2, H411	M = 0 ATE (dermal) = > 2.920 mg/kg ATE (oral) = > 5.840 mg/kg ATE (inhalativ) = > 25,2 mg/l

(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 Remove contaminated, saturated clothing immediately. Medical attention is required if symptoms clearly result from contact with the product on skin, eyes, or from inhalation of vapors.
- In case of inhalation:** Provide fresh air. Seek medical attention if problems persist. In case of inhalation of aerosols/spray mist/splash spots: Consult physician. If breathing is irregular or stopped, administer artificial respiration.
- Following skin contact:** After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.
- 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. Observe risk of aspiration if vomiting occurs.

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

Vapours may cause drowsiness and dizziness. Anaesthetic state . Aspiration hazard . . Irritation to respiratory tract , Skin and eye irritation .

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

Depression of central nervous system , Pneumonia , First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media** ABC-powder. BC-powder. alcohol resistant foam. Carbon dioxide. Nitrogen.
- Unsuitable extinguishing media** Water spray jet. Full water jet. Excess water.

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

Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Do not allow water used to extinguish fire to enter drains or waterways. Co-ordinate fire-fighting measures to the fire surroundings.

Special protective equipment for fire-fighters:

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Remove all sources of ignition. Remove persons to safety. Wear personal protection equipment. Special danger of slipping by leaking/spilling product. See protective measures under point 7 and 8.

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). Use only antistatically equipped (spark-free) tools. 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

Keep container tightly closed. When using do not eat, drink, smoke, sniff. Use only in well-ventilated areas. All work processes must always be designed so that the following is as low as possible: Inhalation Avoid contact with skin, eyes and clothes.

Precautions against fire and explosion:

Always close containers tightly after the removal of product. Use only in well-ventilated areas. Usual measures for fire prevention.

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.

Hints on joint storage

Do not store together with: Oxidizing agent. Organic peroxides. 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

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

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
Petroleum benzine 60-95		worker dermal long-term, systemic 773 mg/kg bw/day population dermal long-term, systemic 699 mg/kg bw/day worker inhalative long-term, systemic 2035 mg/m ³ population inhalative long-term, systemic 608 mg/m ³ population oral long-term, systemic 699 mg/kg bw/day

PNEC Value

Substance:	CAS-No.:	PNEC
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Additional information

-

8.2. Exposure controls

Occupational exposure controls:

Provide adequate ventilation as well as local exhaust 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. Use only in well-ventilated areas. All work processes must always be designed so that the following is as low as possible: Inhalation Take precautionary measures against static discharge. Take precautionary measures against static discharge.

Personal protection equipment

Only wear fitting, comfortable and clean protective clothing. Further remarks: Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Suitable respiratory protection apparatus: Combination filter device (DIN EN 141).

Hand protection

Tested protective gloves are to be worn: DIN-/EN-Norms: EN ISO 374 , Suitable material: NBR (Nitrile rubber), FKM (fluoro rubber). Thickness of the glove material , Breakthrough times and swelling properties of the material must be taken into consideration.

Eye/face protection

Tightly sealed safety glasses.

Body protection:

Personal protection equipment. lab coat. Only wear 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:

Skin contact Inhalation

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state:

Liquid

Colour:

According to the product specification

Odour:

characteristic

Odour threshold: -

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:	<	-20	°C	not determined
Initial boiling point and boiling range:		55-98	°C	Petroleum benzine 60/95
Flammability:				not determined
lower flammability or explosive limits:				not determined
Upper flammability or explosive limits:				not determined
Flash point:	ASTM D56, <	0	°C	Petroleum benzine 60/95
Ignition temperature:				not determined
Decomposition temperature:				not determined
pH:				not determined
Kinematic viscosity:				not determined
Water solubility (g/L):				poorly soluble
Partition coefficient: n-octanol/water:	Log KOW	4-5.1		
Vapour pressure:		100-200	hPa	@20 °C , Petroleum benzine 60/95
Density:		0,69	g/cm³	@20 °C , Petroleum benzine 60/95
Relative density:				not determined
Particle properties:				not determined

9.2. Other information

none

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours can form explosive mixtures with air. Gases / vapours, highly flammable

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Ignition hazard . Violent reaction with: Oxidizing agent

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Rubber articles, plastic

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

There are no data available on the preparation/mixture itself. Information comes from reference works, the literature or safety data sheets of the components. Data apply to the component with the highest toxicological risk.

M-factor: - **Acute toxicity (dermal):** > 2000 mg/kg mg/kg
Acute toxicity (oral): > 2000 mg/kg mg/kg **Acute toxicity (inhalative):** > 25,2 mg/l mg/l

Acute toxicity

Substance:	CAS-No.:	Toxicological information
Petroleum benzine 60-95		LD50 oral (rat) > 5840 mg/kg LC50 inhalation (rat, 4 h) > 25,2 mg/L LD50 dermal (rat) > 2920 mg/kg

Skin corrosion/irritation:

Has degreasing effect on the skin. Causes skin irritation.

Serious eye damage/irritation:

There are no data available on the preparation/mixture itself. May be fatal if swallowed and enters airways. (based on the components)

Respiratory or skin sensitisation:

There are no data available on the preparation/mixture itself. May be fatal if swallowed and enters airways. (based on the components)

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

There are no data available on the preparation/mixture itself. Based on available data, the classification criteria are not met. (based on the components)

Germ cell mutagenicity:

There are no data available on the preparation/mixture itself. Based on available data, the classification criteria are not met. (based on the components)

Reproductive toxicity:

There are no data available on the preparation/mixture itself. Based on available data, the classification criteria are not met. (based on the components)

STOT-single exposure:

There are no data available on the mixture itself. May cause drowsiness or dizziness. (based on the components)

STOT-repeated exposure:

There are no data available on the preparation/mixture itself. Based on available data, the classification criteria are not met. (based on the components)

Aspiration hazard:

May be fatal if swallowed and enters airways. (based on the components)

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
Petroleum benzine 60-95		LC50 (fish, 96 h) < 10 mg/L EC50 (aquatic invertebrates, 48h) < 10 mg/l EC50 (algae, 72 h) < 10 mg/L

12.2. Persistence and degradability

Data apply to the main component. Biodegradable. Product is easily volatile.

12.3. Bioaccumulative potential

There are no data available on the mixture itself. Based on data of the components : Log KOW 4-5.1

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. (based on the components)

12.6 Endocrine disruptive effect

The substance/mixture contains no components $\geq 0.1\%$ classified as endocrine disruptors under REACH Art. 57(f), or Reg. (EU) 2017/2100 or 2018/605.

12.7. Other adverse effects

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Dispose of waste according to applicable legislation.

14 06 03 - other organic solvents, washing liquids and mother liquors;

16 05 08 - used organic chemicals consisting of or containing hazardous substances

Appropriate disposal / Package

Non-contaminated packages may be recycled.

Metal container: 15 01 04;

Plastic packaging: 15 01 02;

Special rules on packaging: 15 01 10 - Packaging that contains residues of hazardous substances or is contaminated by hazardous substances.

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

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

14.1. UN number

UN No.: 3295

14.2. UN proper shipping name

Land transport (ADR/RID)

KOHLENWASSERSTOFFE, FLÜSSIG, N.A.G. (Dampfdruck b
Spezialbenzin 60/95

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

HYDROCARBONS, LIQUID, N.O.S.
Petroleum benzine 60-95

14.3. Transport hazard class(es)

Hazard label(s) / Label:

3

Classification code: / Classification
Code:

F1



14.4. Packing group

Packing group/ Packing Group:

II

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:

2

Special provisions:

640D

tunnel restriction code:

D/E

Limited quantity (LQ):

1 L

Sea transport (IMDG)

EmS-No: F-E, S-D

Special provisions: -

Limited quantity (LQ): 1 L

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

Remark

No bulk transport by sea is intended.

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:

Substance / mixture / product / ingredients not listed

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

REGULATION (EU) 2024/590: not applicable , Substance / mixture / product / ingredients not listed

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

not applicable

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

REGULATION (EU) 2019/102: Substance / mixture / product / ingredients not listed

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

Substance / mixture / product / ingredients not listed

Use restriction according to REACH annex XVII, no.:

Use restriction according to REACH annex XVII, no.: 3, 40

National regulations

Observe in addition any national regulations!

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Other regulations, restrictions and prohibition regulations

Use restriction according to REACH annex XVII, no.: 3, 40 ; CA Proposition 65 : Substance(s) not listed. ; RoHS Directive 2011/65/EU : not relevant not relevant

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

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Training advice

Observe instructions for use.

Recommended restrictions of use:

refer to chapter 1.

Further remarks:

The information provided in this Safety Data Sheet is based on our current knowledge at the time of publication. It is intended to offer guidance for the safe handling of the product mentioned herein during storage, processing, transport, and disposal. These details are not transferable to other products. If the product is blended, mixed, or processed with other materials, or subjected to any treatment, the information in this Safety Data Sheet may not apply to the resulting new material, unless explicitly stated otherwise.

Documentation of changes:

-

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

AC: Article category
ACGIH: American Conference of Governmental Industrial Hygienists
ADN: European agreement concerning the international carriage of dangerous goods by inland waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif au transport international des marchandises dangereuses par route)
AGW: Occupational exposure limit
AOX: Adsorbable organically bound halogens
Bw/KG: Body weight
CAS: Chemical Abstracts Service
CMR: Substances classified as carcinogenic, mutagenic or toxic for reproduction
CSR: Chemical safety report
DIN: German Institute for Standardization (Deutsches Institut für Normung)
DNEL: Derived no-effect level
DPD: Dangerous Preparations Directive (Richtlinie 1999/45/EC)
DSD: Dangerous Substances Directive (Richtlinie 67/548/EWG)
DU: Downstream user
EC50: Effective concentration 50%
ECHA: European Chemicals Agency
EN: European standard
EWC/EWL: European Waste Catalogue
GHS: Globally harmonized system of classification and labelling of chemicals
IATA: International Air Transport Association
IBC: Intermediate bulk container
ICAO: International Civil Aviation Organization
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
ISO: International Organization for Standardization
LC50: Lethal concentration 50%
LD50: Lethal dose 50%
LEV: Local exhaust ventilation
LOAEL: Lowest observed adverse effect level
LOEL: Lowest observed effect level
MAK: Maximum workplace concentration (Maximale Arbeitsplatzkonzentration – DFG)
n.a.: Not applicable
n.b.: Not determined
NOAEC: No observed adverse effect concentration
NOAEL: No observed adverse effect level
NOEC: No observed effect concentration
OEL: Occupational exposure limit
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
POP: Persistent organic pollutant
PPE/PSA: Personal protective equipment
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement international concernant le transport des marchandises dangereuses par chemin de fer)
STEL: Short-term exposure limit
SVHC: Substance of very high concern
TLV: Threshold limit value
UN: United Nations
VOC: Volatile organic compounds
vPvB: Very persistent and very bioaccumulative
dw: Dry weight