Safety Data Sheet

in accordance with Regulation (EC) No. 1907/2006

KPSSM25 - Kraftprotz medium-strength screw lock (blue)

SECTION 1: Identification of the substance or mixture and of the company

1.1. Product identifier

KPSSM25 - Kraftprotz medium-strength screw lock (blue)

UFI: MF10-X0E8-300M-97JN

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

Use of the substance/mixture

Adhesives, sealants

1.3. Details of the supplier providing the safety data sheet

Company name: ARKA Biotechnologie GmbH
Street: Mühlbach 53-55
City: D-90552 Röthenbach a.d.Peg.
Phone: +49 (0)911 / 56 98 610 - 00 Fax: +49 (0)911 / 56 98 610 - 29
Email (contact person): info@arka-biotech.de

1.4. Emergency number:

+49 (0)89-19240 Munich Poison Control Center (24 hours a day, 7 days a week)

SECTION 2: Potential hazards

2.1. Classification of the substance or mixture Regulation (EC) No. 1272/2008

Skin Irrit. 2; H315
Eye Irrit. 2; H319
STOT SE 3; H335

Wording of hazard statements: see SECTION 16.

2.2. Label elements Regulation (EC) No. 1272/2008

Hazardous components for labeling

Methacrylic acid, diester with polyethylene glycol
Silica gel, amorphous
alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide

Signal word: Warning

Pictograms:

Hazard statements

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

Safety instructions

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Special treatment (see safety instructions on this label). P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures Relevant

components

CAS No.	Substance name			Percentage
	EC No.	Index No.	REACH No.	
	Classification (Regulation (EC) No. 1272/2008)			
25852-47-5	Methacrylic acid, diester with polyethylene glycol			60 - 80
	607-819-8			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
57-55	1,2-propanediol			1–5
	200-338		01-2119456809-23	
112945-52-5	Silica gel, amorphous			1 - 5
	601-216-3			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
80-15-9	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide			1 - 1.5
	201-254-7	617-002-00-8		
	Org. Perox. E, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, STOT RE 2, Aquatic Chronic 2; H242 H331 H312 H302 H314 H373 H411			
13463-67-7	Titanium dioxide			0.1 - 1
	236-675-5			

Wording of H and EUH statements: see Section 16.

Specific concentration limits, M-factors, and ATE

CAS	EC No.	Substance name	Percentage
	Specific concentration limits, M-factors, and ATE		
57-55	200-338-0	1,2-propanediol	1 - 5
	dermal: LD50 = 20,800 mg/kg; oral: LD50 = 22,000 mg/kg		
80-15-9	201-254-7	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide	1 - 1.5
	inhalation: ATE = 3 mg/l (vapors); inhalation: ATE = 0.5 mg/l (dust or mist); dermal: ATE = 1100 mg/kg; oral: LD50 = 382 mg/kg Skin Corr. 1B; H314: >= 10 - 100 Skin Irrit. 2; H315: >= 3 - < 10 Eye Dam. 1; H318: >= 3 - < 10 Eye Irrit. 2; H319: >= 1 - < 3 STOT SE 3; H335: >= 1 - 100		
13463-67-7	236-675-5	Titanium dioxide	0.1 - 1
	Inhalation: LC50 = > 6.8 mg/l (vapors); dermal: LD50 = > 10,000 mg/kg; oral: LD50 = > 10,000 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures General

information

First responder: Ensure your own safety!

After inhalation

Provide fresh air. Medical attention is necessary.

After skin contact

In case of contact with skin, wash immediately with plenty of water and soap. Remove all contaminated clothing immediately and wash before reuse. In case of skin irritation: Seek medical advice/attention.

After eye contact

In case of contact with eyes, rinse eyes with water for a sufficient amount of time with eyelids open, then consult an ophthalmologist immediately.

After swallowing

In case of vomiting, be aware of the risk of aspiration. Immediately rinse mouth and drink 1 glass of water.

4.2. Most important acute and delayed symptoms and effects

No information available.

4.3. Indications for immediate medical attention or special treatment

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. Foam. Dry powder. Carbon dioxide.
Adapt extinguishing measures to the surroundings.

Unsuitable extinguishing media

No restrictions

5.2. Special hazards arising from the substance or mixture

In case of fire, the following may be produced: Carbon monoxide, carbon dioxide.

5.3. Firefighting instructions

Wear self-contained breathing apparatus and chemical protective suit. Full protective suit.

Additional information

Suppress gases/vapors/mists with water spray. Collect contaminated extinguishing water separately. Do not allow to enter drains or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

General

Ensure adequate ventilation. Do not inhale gas/smoke/vapor/aerosol. Avoid contact with skin, eyes, and clothing. Use personal protective equipment.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning

For cleaning

Remove all sources of ignition.
Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder). Treat the absorbed material in accordance with the disposal section.

6.4. Reference to other sections

Safe handling: see Section 7 Personal protective equipment: see Section 8 Disposal: see Section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

When handling in an open environment, use local exhaust ventilation. Do not inhale gas/fumes/vapor/aerosol. Avoid contact with skin, eyes, and clothing.
Wear personal protective equipment (see Section 8).

Fire and explosion protection

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

Information on general hygiene measures at the workplace

Remove contaminated, soaked clothing immediately. Create and follow a skin protection plan! Wash hands and face thoroughly before breaks and at the end of work, take a shower if necessary. Do not eat, drink, smoke, or sniff at the workplace.

7.2. Conditions for safe storage, taking into account incompatibilities Requirements for

storage rooms and containers

Keep container tightly closed. Store under lock and key. Store in a place that is only accessible to authorized persons. Ensure adequate ventilation and local exhaust ventilation at critical points.

Storage information

No special precautions necessary.

Further information on storage conditions

Recommended storage temperature: -20°C to 50°C

Storage class according to TRGS 510:10 (Flammable liquids that cannot be assigned to any of the above storage classes)

7.3. Specific end uses

Consult the supplier before any specific use.

SECTION 8: Exposure controls/personal protective equipment

8.1. Parameters to be monitored

DNEL/DMEL values

CAS No.	Designation			
DNEL Type		Route of exposure	Effect	Value
57-55-6	1,2-propanediol			
Consumer DNEL, long-term		oral	systemic	85 mg/kg bw/d
Consumer DNEL, long-term		dermal	systemic	213 mg/kg bw/d
Consumer DNEL, long-term		inhalation	systemic	50 mg/m³
Worker DNEL, long-term		inhalation	systemic	168 mg/m
Consumer DNEL, long-term		inhalation	local	10 mg/m
Workers DNEL, long-term		inhalation	local	10 mg/m³
13463-67-7	Titanium dioxide			
Workers DNEL, long-term		inhalation	local	10 mg/m³
Consumer DNEL, long-term		oral	systemic	700 mg/kg bw/d

PNEC values

CAS No.	Designation	
Environmental compartment		Value
57-55-6	1,2-propanediol	
Freshwater		260 mg/l
Seawater		26 mg/l
Freshwater sediment		572 mg/kg
Marine sediment		57.2 mg/kg
Microorganisms in sewage treatment plants		2000 mg/l
Soil		50 mg/kg
13463-67-7	Titanium dioxide	
Freshwater		0.127 mg/l
Freshwater (intermittent release)		0.61 mg/l
Seawater		1 mg/l
Freshwater sediment		1000 mg/kg
Marine sediment		100 mg/kg
Secondary poisoning		100 mg/l
Soil		100 mg/kg

8.2. Exposure limits and monitoring


Suitable technical control measures

When handling in the open, use local exhaust ventilation. Do not breathe gas/fumes/vapor/aerosol.

Individual protection measures, e.g., personal protective equipment Eye/face protection

Suitable eye protection: Safety goggles.

Hand protection

Approved protective gloves must be worn:
Recommended glove brands:
Neoprene. Butyl rubber. NR (natural rubber, natural latex).
Chemical protective gloves must be selected for each specific workplace depending on the concentration and quantity of hazardous substances. It is recommended that the chemical resistance of the above-mentioned protective gloves for specific applications be clarified with the glove manufacturer.

Body protection

Use of protective clothing.

Respiratory protection

Wear respiratory protection if ventilation is inadequate.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Color:	Blue
Odor:	Mild

Odor threshold:	No data available	
		Test standard
Melting point/freezing point: Boiling point or initial boiling point and boiling range:	Not determined > 150 °C	
Flammability:		
Lower explosion limit: Upper explosion limit:	Not specified 2.6% by volume 12.5% by volume	
Flash point:	> 100 °C closed cup	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
pH value:	Not determined	
Kinematic viscosity:	> 20.5 mm²/s	DIN EN ISO 3104
Water solubility:	slightly	
Solubility in other solvents	soluble	
Acetone Partition coefficient n-octanol/water: Vapor pressure:	Not determined	
(at 27 °C) Vapor pressure:	< 6.67 hPa	
(at 20 °C)	< 0.13 hPa	
Density (at 23.9 °C):		
Relative vapor density: (at 20 °C)	1.1 g/cm³ > 1	
Particle properties:	Not applicable	

9.2. Other information

Information on physical hazard classes

Explosion hazards

The product is not: Explosive.

Oxidizing properties

The product is not: oxidizing.

Other safety-related parameters

Dynamic viscosity: 800 - 1600 mPa·s

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions occur when handled and stored as intended.

10.2. Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No dangerous reactions are known.

10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Strong oxidizing agents. Radical formers. Strong reducing agents. Alkalis (lyes). Copper. Iron. Zinc. Aluminum.

10.6. Hazardous decomposition products

Decomposition products in case of fire: see Section 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes in accordance with Regulation (EC) No. 1272/2008

Acute toxicity

Based on the available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapor) > 50 mg/l; ATE (inhalation dust/mist) > 12.5 mg/l

CAS No.	Designation				
	Route of exposure	Dose	Species	Source	Method
57-55-6	1,2-propanediol				
	oral	LD50 22000 mg/kg	rat		
	Dermal	LD 20800 mg/kg	Rabbit		
80-15-9	alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide				
	oral	LD 382 mg/kg	Rat	IUCLID	
	dermal	ATE 1100 mg/kg			
	inhalation vapor	ATE 3 mg/l			
	inhalation dust/mist	ATE 0.5 mg/l			
13463-67-7	Titanium dioxide				
	Oral	LD50 > 10000 mg/kg	rat		
	Dermal	LD > 10000 mg/kg	Rabbit		
	inhalation vapor	LC50 > 6.8 mg/l	Rat		

Irritant and corrosive effect

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitizing effects

Based on the available data, the classification criteria are not met.

Carcinogenic, mutagenic, and reproductive toxicity Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on the available data, the classification criteria are not met.

Specific target organ toxicity after single exposure

May irritate the respiratory tract. (Methacrylic acid, diester with polyethylene glycol; alpha,alpha-dimethylbenzyl hydroperoxide; cumene hydroperoxide)

Specific target organ toxicity after repeated exposure

Based on the available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine-disrupting properties

See Section 12

SECTION 12: Environmental information

12.1. Toxicity

Based on the available data, the classification criteria are not met.

CAS No.	Designation						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
57-55-6	1,2-propanediol						
	Acute fish toxicity	LC50 mg/l	51400	96 h	Pimephales promelas (fathead minnow)		
	Acute algal toxicity	ErC50 mg/l	24200	72 h	Chlorella vulgaris		
	Acute crustacean toxicity	EC50 mg/l	43500	48 h	Daphnia magna		

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulation potential

The product has not been tested.

Distribution coefficient n-octanol/water

CAS	Designation	Log Pow
57-55	1,2-propanediol	-0.9

BCF

CAS No.	Designation	BCF	Species	Source
57-55-6	1,2-propanediol	< 1.5		

12.4. Mobility in soil

The product has not been tested.

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. The product has not been tested.

12.6. Endocrine-disrupting properties

This product does not contain any substance that exhibits endocrine properties towards non-target organisms, as no ingredient meets the criteria.

12.7. Other harmful effects

No information is available.

Further information

Do not allow to enter drains or waterways. Do not allow to enter the ground/soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for disposal

Do not allow to enter the sewage system or waterways. Do not allow to enter the subsoil/soil. Dispose of in accordance with official regulations.
The assignment of waste code numbers/waste designations must be carried out in accordance with EAKV (German Waste Management Code) on an industry- and process-specific basis.

Disposal of uncleaned packaging and recommended cleaning agents

Uncontaminated and completely emptied packaging can be recycled. Contaminated packaging must be treated in the same way as the substance.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	Not classified as dangerous goods under these transport regulations.
14.2. Proper UN shipping name:	Not classified as dangerous goods under these transport regulations.
14.3. Transport hazard classes:	Not classified as dangerous goods under these transport regulations.
14.4. Packaging group:	Not classified as dangerous goods under these transport regulations.

Inland waterway transport (ADN)

Other relevant information for inland waterway transport

Not classified as dangerous goods under these transport regulations.

Sea transport (IMDG)

Other relevant information for sea transport

Not classified as dangerous goods under these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

Other relevant information for air transport

Not classified as dangerous goods under these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for the user

Not classified as dangerous goods under these transport regulations.

14.7. Bulk transport by sea in accordance with IMO instruments

Not classified as dangerous goods under these transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health, and environmental regulations/specific legal provisions for the substance or mixture

EU regulations

Restrictions on use (REACH, Annex XVII): Entry 3, Entry 75

Directive 2010/75/EU on industrial emissions:	5
Directive 2004/42/EC on VOCs from paints and varnishes:	6.5
Information on the SEVESO III Directive 2012/18/EU:	Not subject to the SEVESO III Directive

National regulations

Employment restriction:	Observe employment restrictions for young people (Section 22 JArbSchG).
Water hazard class: Status:	3 - highly hazardous to water
	Classification of mixtures according to Annex 1, No. 5 AwSV

15.2. Substance safety assessment

No substance safety assessments have been performed for substances in this mixture.

SECTION 16: Other information

Changes

Complete revision

Abbreviations and acronyms

Org. Perox
Acute Tox: Acute toxicity
Skin Corr: Skin corrosion Skin Irrit: Skin irritation
Eye Irrit: Eye irritation
STOT SE: Specific target organ toxicity (single exposure) STOT RE: Specific target organ toxicity (repeated exposure) Aquatic Chronic: Chronic aquatic hazard
CLP: Classification, labeling, and packaging
REACH: Registration, Evaluation, and Authorization of Chemicals
GHS: Globally Harmonized System of Classification, Labeling, and Packaging of Chemicals UN: United Nations
EC/EEC: European Community/European Economic Community EU: European Union
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50% LD50: Lethal dose, 50%
LL50: Lethal loading, 50% EL50: Effect loading, 50%
EC50: Effective concentration 50%
ErC50: Effective concentration 50%, growth rate
NOEC: No observed effect concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative M-factor: multiplication factor
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Regulations concerning the international carriage of dangerous goods by rail MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate bulk container
VOC: volatile organic compound SVHC: Substance of Very High Concern
For abbreviations and acronyms, see ECHA: Guidance on information requirements and chemical safety assessment, Chapter R.20 (List of terms and abbreviations).

Classification of mixtures and assessment method used in accordance with Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H335	Calculation method

Wording of H and EUH statements (number and full text)

H242 Heating may cause fire.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and serious eye damage. H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.

H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long-lasting effects.

Further information

The information is based on our current knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. Existing laws and regulations must be observed by the recipient of our products on their own responsibility.

Preparation of the safety data sheet:
REACh ChemConsult GmbH, Strehlener Str. 14, D-01069 Dresden
info@reach-chemconsult.com

(The data for the relevant components was taken from the latest valid safety data sheet of the upstream supplier.)