

SAFETY DATA SHEET**Komsol®SKATESEAL****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 PRODUCT IDENTIFIER TRADE NAME:**

Trade name: Komsol®SKATESEAL

Product No.: 500

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Intended use: Concrete impregnation, dust binding, surface reinforcement of concrete surfaces.

Uses advised against: Unknown.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: Komsol AB
Sandbogengatan 27
SE-45631 KUNGSHAMN, SCHWEDEN
+46 10 3303010
www.komsol.com

Contact person: Niclas Schönfelder
E-post niclas@komsol.se

1.4 EMERGENCY TELEPHONE NUMBER**Acute emergency (EU-wide): 112****Poison Information Centre Freiburg (Vergiftungs-Informations-Zentrale Freiburg)**

Breisacher Straße 86 b
79110 Freiburg
Notfalltelefon +49 (0) 761 19240
Telefax +49 (0) 761 270 44570
giftinfo@uniklinik-freiburg.de

ECHA Poison Centre Notification (PCN) if applicable. See Section 4 for first aid measures.

SECTION 2: HAZARDS IDENTIFICATION**2.1 CLASSIFICATION OF THE MIXTURE**

Classification according to Regulation (EC) No. 1272/2008 (CLP): Not classified.

2.2 LABEL ELEMENTS

Labelling according to Regulation (EC) No. 1272/2008 (CLP):

Labelling according to Regulation (EC) No. 1272/2008 (CLP):

- P101: If medical advice is needed, have product container or label at hand.
- P102: Keep out of reach of children.

Precautionary statements – Prevention:

- P280: Wear protective gloves/eye protection.

Precautionary statements – Response:

- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.

Precautionary statements – Disposal:

- P501: Dispose of contents/container in accordance with local regulations.

2.3 OTHER HAZARDS

- This product does not meet the criteria for PBT or vPvB.
- No other known hazards.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Not applicable. This product is a mixture.

3.2 MIXTURES

Substance / Component	Identifiers	% w/w	Classification
Water	EC No.: 231-791-2 Cas No.: 7732-18-5 REACH No.: N/A	50-75 %	
Sodium silicate solution, molar ratio 3.3, solids < 40%	EC No.: 215-687-4 Cas No.: 1344-09-8 REACH No.: 01-21194487 25-31-xxxx	25-50%	
Potassium silicate solution, molar ratio 3.3, solids < 40%	EC No.: 215-199-1 Cas No.: 1312-76-1 REACH No.: 01-21194568 88-17-xxxx	15-25%	

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

In case of accident:	Notify a physician or emergency service – have label or safety data sheet available. If symptoms persist or in case of doubt, seek medical advice. Never give anything by mouth to an unconscious person.
Inhalation:	If feeling unwell, ensure fresh air and rest.
Skin contact:	If skin irritation occurs: Wash off product. Seek medical advice if symptoms persist.
Eye contact:	Rinse eyes with plenty of water (20–30 °C) until irritation subsides. Remove contact lenses if present and easy to do so.
Ingestion:	Rinse mouth and drink plenty of water. Seek medical attention if symptoms persist. Present this SDS to attending medical personnel.

Burns: Not applicable.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No special first aid measures required based on available information.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptomatisch behandeln.

Treat symptomatically. If medical advice is sought, present this safety data sheet if possible.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Use extinguishing media appropriate for surrounding fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

The product is neither explosive nor flammable and does not contribute to the flammability of other materials.

5.3 ADVICE FOR FIREFIGHTERS

Persons exposed to combustion gases or decomposition products should wear a self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal protection: Avoid skin and eye contact. Ensure adequate ventilation.
Wear appropriate personal protective equipment - see Section 8.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow product to reach drains, watercourses, or soil.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust). Dispose of in accordance with local/national regulations.

6.4 REFERENCE TO OTHER SECTIONS

Refer to Sections 8 and 13 for protective measures and disposal information..

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes, skin and clothing. Wash hands before breaks and immediately after handling the product.
Ensure good ventilation. Smoking, eating and drinking are not allowed in the workrooms.
See SECTION 8 Personal protective equipment.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Compatible packaging: Store only in original container.
Storage temperature: Room temperature , 15 - 25°C
Incompatible materials: Glas, Metal

7.3 SPECIFIC END USE(S)

This product may only be used for the applications described in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Compositional comments	No exposure limits specified for component(s).
Protective gear	Protective gloves and eye protection. See section 8.2.
Process conditions	Provide eye wash station.
Ventilation	Well-ventilated area.

8.2 EXPOSURE CONTROLS

In general	Smoking, eating and drinking are not allowed in the work rooms.
Exposure limits	Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
DNEL	No data.
PNEC	No data.
Technical measures	Apply usual precautions when handling product. Ensure good ventilation. Avoid breathing vapours/spray. Ensure that eye wash and emergency shower are clearly labelled.
Hygiene measures	Wash hands after use. Remove spilled clothing and wash before reuse. Use appropriate skin cream to prevent drying out.
Environmental exposure controls	No special requirements.

Personal protective measures

In general	Use only CE-labelled protective equipment.
Respiratory protection	Respiratory protection is not required. Standard EN 149.
Skin protection	Not specific for normal and intended use.

Hand protection

Material	Thickness (mm)	Breakthrough time (min.)	Standard
Nitril	0,3	> 480	EN374-2, EN374-3, EN388



Eye protection

Type	Standard
Wear safety goggles with side protection.	EN166



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical condition	Liquid
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Color	Clear to slightly cloudy
Odour	Odourless
pH	11-12
Density (g/cm ³)	1,14 (20 °C)
Kinematic viscosity	No data available.
Properties of the particles	No data available.
Phase change	
Melting point/freezing point (°C)	No data available
Soft Point/Soft Spot range (waxes and pastes) (°C)	No data available
Boiling point (°C)	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Decomposition temperature (°C)	No data available
Data on fire and explosion risks	
Flash point (°C)	No data available
Flammability (°C)	No data available
Self-ignition temperature (°C)	No data available
Explosionsgrenzen (% v/v)	No data available
Solubility	
Solubility in water	Completely soluble

9.2 ADDITIONAL INFORMATION

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No incompatible groups specified.

10.2 CHEMICAL STABILITY

Das Produkt ist stabil unter empfohlenen Lagerung und Handhabung Gebraucht (siehe SECTION 7).

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Does not polymerise.

10.4 CONDITIONS TO AVOID

Glass. Aluminum, lead, zinc, tin or alloys containing these metals.

10.5 INCOMPATIBLE MATERIALS

Glass. Aluminum, lead, zinc, tin or alloys containing these metals.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

When used as recommended, no hazardous decomposition products are released.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

Acute toxicity - LD50:	2000 mg/kg (Oral Rat).
Skin corrosion/irritation:	May cause irritation.
Serious eye damage/eye irritation:	May cause eye irritation.
Respiratory sensitisation:	Vapours/aerosols may cause irritation to the respiratory system.
Skin sensitisation:	No known allergic reactions.
Mutagenicity in germ cells:	Based on available data, the classification criteria are not met.
Endocrine disrupting properties:	Based on available data, the classification criteria are not met.
Carcinogenicity:	No known carcinogenic properties.
Reproductive toxicity:	No known harmful effects on reproduction, fertility or foetal development.
Specific target organ toxicity - single exposure:	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure:	Based on available data, the classification criteria are not met.
INGREDIENT:	Sodium silicate solution, 3.3 mol ratio, solids <40%
Toxic dose - LD50:	1960 mg/kg (oral rat)
Toxic dose - LD50 (skin):	>4640 mg/kg (skin rabbit)

11.2 INFORMATION ON OTHER HAZARDS

Long-term effects:	None known
Other information:	None known

SECTION 12: ECOLOGICAL INFORMATION**12.1 TOXICITY**

No data available.

12.2 PERSISTENCE AND DEGRADABILITY

The product is readily biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL

The classification criteria are not met based on the available data.

12.4 MOBILITY IN SOIL

No data available.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

This mixture/product does not contain any substances that meet the criteria for classification as PBT and/or vPvB substances.

12.6 ENDOCRINE DISRUPTING PROPERTIES

This mixture/product contains no substances considered to be endocrine disruptors in the environment.

12.7 OTHER ADVERSE EFFECTS

Unknown.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal in accordance with the Closed Substance Cycle and Waste Management Act (KrWG) and the Waste Catalogue Ordinance (AVV).

AVV-Code:

Plastic tins: 15 01 02 Plastic packaging

Cured product residues: 7 09 04 Other mixed construction and demolition wastes other than those mentioned in 17 09 01–17 09 03.

Applied product: 17 01 07 other mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06.

Destruction methods: Destruction in accordance with local regulations.

Contaminated packaging: Follow the instructions for disposal of used packaging.

SECTION 14: TRANSPORT INFORMATION

General: Not classified as dangerous goods according to ADR/RID/IMDG/IATA.

	14.1 UN NUMBER	14.2 UN PROPER SHIPPING NAME	14.3 TRANSPORT HAZARD CLASS(ES)	14.4 PG*	14.5 ENV**	SPECIAL PRECAUTIONS FOR USE:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

*Packing group, **Environmental hazards

14.6 SPECIAL PRECAUTIONS FOR USER

Not applicable.

14.7 TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS

No IBC Code for bulk transport by sea (MARPOL).

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Restrictions on use: For professional use only.

Specific training requirements: No special requirements.

Hazard categories / Hazardous substances: Not applicable.

(DE) Hazardous Incident Ordinance (12. BImSchV)

(AT) Industrial Accidents Ordinance (IUV 2015)

(CH) Major Accidents Ordinance (StFV, SR 814.012)

This SDS is in compliance with:

Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1272/2008 (CLP)

Regulation (EU) No. 2020/878 (Annex II update)

Local/national legislations:

Germany: ChemG, GefStoffV, TRGS, KrWG

Austria: ChemG, AWG, GKV

Switzerland: ChemV, VVEA, StFV

France: Code du Travail, Décret 2014-128, Arrêté du 5 janvier 1993 (as amended)

Italy: D.Lgs. 81/2008 (Testo Unico sulla Salute e Sicurezza sul Lavoro), D.Lgs. 152/2006 (Environmental Code)

Belgium: AR du 11 mars 2002 (as amended), Code du bien-être au travail

Spain: Real Decreto 374/2001, Ley 31/1995 de Prevención de Riesgos Laborales

Netherlands: Arbeidsomstandighedenbesluit (Occupational Health and Safety Decree), Besluit melden bedrijfsstoffen

15.2 CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out for this mixture

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road ATE – Acute Toxicity Estimate

BCF – Bioconcentration Factor

CAS – Chemical Abstracts Service

CLP – Classification, Labelling and Packaging

CSA – Chemical Safety Assessment

CSR – Chemical Safety Report

DNEL – Derived No Effect Level

ECHA – European Chemicals Agency

EC No. – European Community Number

EINECS – European Inventory of Existing Commercial Chemical Substances

ES – Exposure Scenario

EUH – Specific hazard statement under CLP

EWG – European Waste Catalogue

GHS – Globally Harmonized System

IATA – International Air Transport Association

IMDG – International Maritime Dangerous Goods Code

LogPow – Partition coefficient n-octanol/water

MARPOL – International Convention for the Prevention of Pollution from Ships

NGV – Swedish occupational exposure limit

OECD – Organisation for Economic Co-operation and Development

PBT – Persistent, Bioaccumulative and Toxic

PNEC – Predicted No Effect Concentration

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

RRN – REACH Registration Number

SCL – Specific Concentration Limit

STOT – Specific Target Organ Toxicity

SVHC – Substance of Very High Concern

UFI – Unique Formula Identifier

UN – United Nations

VOC – Volatile Organic Compounds

vPvB – very Persistent and very Bioaccumulative

Other information

In accordance with Article 31 of REACH, a safety data sheet is not required for this product. This data sheet has been prepared to provide the information required under Article 32 of REACH.

The safety data sheet is validated by: NS

Other information

The information in this safety data sheet is based on our current knowledge. The information on the safety data sheets is based on the best available data and applies to the intended use of the product. This safety data sheet relates only to this product and may not be applicable if the product is used as a component of another product. If the product is used in a manner or application other than that for which it was originally developed or recommended, it is the sole responsibility of the user. This safety data sheet is intended to describe the safety requirements of the product. It is not to be understood as a guarantee for the properties of the product and cannot replace a product data sheet. It is recommended that this safety data sheet is given to the actual user of the product.