

Safety Data Sheet

Enke Arctic Seal 1K LF

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Trade name:	Enke Arctic Seal 1K LF
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Use of the substance/mixture:	Emergency sealing
1.3	Details of the supplier of the safety data sheet:	
	Street:	ENKE-Werk Johannes Enke GmbH & Co. KG Hamburger Str. 16
	Place:	40221 Düsseldorf, Germany
	Tel:	+49 (0) 211 / 30 40 74
	e-mail:	info@enke-werk.de
	e-mail (Contact person):	sdb@enke-werk.de
	Internet:	www.enke-werk.de/en
	Responsible department:	On weekdays between 7 a.m. and 4 p.m.
1.4	Emergency telephone number:	Poison Information Centre (24h): +49 (0) 551 / 19 240

SECTION 2: HAZARD IDENTIFICATION

2.1	Classification of the substance or mixture	
	GB CLP Regulation	
	This mixture is not classified as hazardous in accordance with GB CLP Regulation.	
2.2	Label elements	
	GB CLP Regulation	
	Special labelling of certain mixtures	
	EUH208	Contains trimethoxyvinylsilane; trimethoxy(vinyl)silane, N-(3-(Trimethoxysilyl)propyl) ethylendiamin, octhilonone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]. May produce an allergic reaction.
	EUH210	Safety data sheet available on request.
2.3	Other hazards	No information available.
	The product hydrolyses quickly in the presence of water to: Polymers and Methanol (CAS 67-56-1).	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2	Mixtures	
	Chemical characterization	
	Mixture of silane-terminated polyurethanes and fillers	
	Hazardous components	

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane			< 1 %
	220-449-8	014-049-00-0		
	Skin Sens. 1B; H317			
1760-24-3	N-(3-(Trimethoxysilyl)propyl) ethylendiamin			< 1 %
	217-164-6		01-2119970215-39	
	Eye Dam. 1, Skin Sens. 1B, STOT SE 3; H318 H317 H335			
23432-65-7	[[Dimethoxymethylsilyl)methyl]carbaminsäuremethylester			< 1 %
	457-690-5		01-0000019371-74	
	Repr. 2; H361fd			
26530-20-1	octhilonone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]			< 0,1 %
	247-761-7	613-112-00-5		
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 EUH071			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
26530-20-1	247-761-7	octhilonone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]	< 0,1 %
		inhalation: ATE 0,27 mg/l (dusts or mists); dermal: ATE 311 mg/kg; oral: ATE 125 mg/kg Skin Sens. 1A; H317: >= 0,0015 - 100 Aquatic Acute 1; H400: M=100 Aquatic Chronic 1; H410: M=100	

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SECTION 4: FIRST AID MEASURES

4.1	Description of first aid measures	
	After inhalation	Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.
	After contact with skin	After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
	After contact with eyes	Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.
	After ingestion	Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Call a physician immediately.
4.2	Most important symptoms and effects, both acute and delayed	No information available.
4.3	Indication of any immediate medical attention and special treatment needed	Treat symptomatically. Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing media	
	Suitable extinguishing media	Co-ordinate fire-fighting measures to the fire surroundings. Water mist, Extinguishing powder, alcohol resistant foam, Carbon dioxide, Sand.
5.2	Special hazards arising from the substance or mixture	Non-flammable. In case of fire may be liberated: Nitrogen oxides (NOx)
5.3	Advice for firefighters	In case of fire: Wear self-contained breathing apparatus.
	Additional information	Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Avoid contact with eyes and skin. Avoid breathing dust/fume/gas/mist/vapours/spray.
6.2	Environmental precautions	Do not allow to enter into surface water or drains.
6.3	Methods and material for containment and cleaning up	Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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	Other information	Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). 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	
	Advice on safe handling	Provide adequate ventilation as well as local exhaustion at critical locations. Special danger of slipping by leaking/spilling product. Keep away from clothing as well as other incompatible materials. (SECTION 10: Stability and reactivity)
	Advice on protection against fire and explosion	The product hydrolyses quickly in the presence of water to: Polymers and Methanol (CAS 67-56-1). Vapours can form explosive mixtures with air. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.
	Advice on general occupational hygiene	Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.
7.2	Conditions for safe storage, including any incompatibilities	
	Requirements for storage rooms and vessels	Keep container tightly closed in a cool, well-ventilated place.
	Hints on storage	No special measures are necessary.
	Further information on storage conditions	Protect from moisture. Keep/Store only in original container.
7.3	Specific end use(s)	Emergency sealing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters	
	Additional advice on limit values	The product hydrolyses quickly in the presence of water to: Polymers and Methanol (CAS 67-56-1)
8.2	Exposure controls	
	Individual protection measures, such as personal protective equipment	
	Eye/face protection	Wear eye/face protection.
	Hand protection	When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Our recommendation is as follows: Suitable materials for prolonged, direct contact (at least protection index 6, corresponding to > 480 minutes permeation time according to EN 374): Neoprene®, Viton®, PVC, butyl or

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		nitrile rubber. Dispose of contaminated gloves. With proper, optimized operation, only short-term contact and liquid splashes are to be expected, therefore, according to DGUV Information 212-007, a glove with a minimum protection class of 1 (<10 min) is sufficient. It must be ensured that the gloves are changed at short notice in case of chemical contact.
	Skin protection	Wear suitable protective clothing.
	Respiratory protection	In case of inadequate ventilation wear respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Physical State	Pasty
	Colour	Grey
	Odour	Like: Menthol
		Test Method
	Changes in the physical state	
	Melting/freezing point:	not determined
	Boiling point or initial boiling point and boiling range:	not determined
	Flash point:	132 °C
	Flammability	
	Solid/liquid:	not applicable
		not applicable
	Lower explosion limits:	not determined
	Upper explosion limits:	not determined
	Self-ignition temperature	
	Solid:	not applicable
	Gas:	not applicable
	Decomposition temperature:	not determined
	pH-Value:	not determined
	Viscosity / dynamic:	3 000 000 - 4 000 000 mPa·s
	Water solubility:	easily soluble
	Solubility in other solvents	
	not determined	
	Partition coefficient n-octanol/water:	not determined
	Vapour pressure:	not determined
	Density (at 23°C):	1,27 g/cm ³
	Relative vapour density:	not determined
9.2	Other information	
	Information with regard to physical hazard classes	
	Oxidizing properties	
	not oxidising.	
	Other safety characteristics	
	Solid content:	not determined
	Evaporation rate:	not determined
	Further Information	

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	No hazardous reaction when handled and stored according to provisions.
10.2	Chemical stability	The product is stable under storage at normal ambient temperatures.

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10.3	Possibility of hazardous reactions	No known hazardous reactions.
10.4	Conditions to avoid	None.
10.5	Incompatible materials	Reacts with: Water, Acid and Base. Formation of: Methanol (CAS 67-56-1)
10.6	Hazardous decomposition products	No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on hazard classes as defined in GB CLP Regulation				
	Acute toxicity				
	CAS No	Chemical name			
		Exposure route	Dose	Species	Source
	26530-20-1	octhilonone (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]			
		oral	ATE 125 mg/kg		
		dermal	ATE 311 mg/kg		
		inhalation dust/mist	ATE 0,27 mg/l		
	Additional information on tests				
	The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].				
	Further information				
	May produce an allergic reaction.				

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	The product is not: Ecotoxic.
12.2	Persistence and degradability	The product has not been tested.
12.3	Bioaccumulative potential	The product has not been tested.
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 UK REACH. The product has not been tested.
12.6	Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
12.7	Other adverse effects	No information available.
	Further information	Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	
	Disposal recommendations	<p>Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Adhering to the official regulations, it can be disposed of in appropriate incinerator. Cured residual material can be disposed of with household waste.</p> <p>Disposal of packaging: Containers have to be emptied completely and free of drops after final product removal. Emptied packages can be returned to the partners of Kreislaufsystem Blechverpackungen Stahl (Recycling system for metal containers). Collection points are provided by the ENKE company as user of the mark.</p>

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List of Wastes Code - residues/unused products	
080410	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09
List of Wastes Code - used product	
080410	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09
Contaminated packaging	Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID)		
14.1	UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2	UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3	Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4	Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)		
14.1	UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2	UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3	Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4	Packing group:	No dangerous good in sense of this transport regulation.
Marine transport (IMDG)		
14.1	UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2	UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3	Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4	Packing group:	No dangerous good in sense of this transport regulation.
Air transport (ICAO-TI/IATA-DGR)		
14.1	UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2	UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3	Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4	Packing group:	No dangerous good in sense of this transport regulation.
14.5	Environmental hazards	
	ENVIRONMENTALLY HAZARDOUS:	No
14.6	Special precautions for user	No information available.
14.7.	Maritime transport in bulk according to IMO instruments	Not applicable

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	EU regulatory information	
	Restrictions on use (REACH, annex XVII):	
	Entry 75	

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	Additional information	
	To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC	
	National regulatory information	Water contaminating class (D): 2 - clearly water contaminating
	Water hazard class (D):	1 - slightly hazardous to water
	Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.
15.2	Chemical safety assessment	Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service
LC50:	Lethal concentration, 50%
LD50:	Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains trimethoxyvinylsilane; trimethoxy(vinyl)silane, N-(3-(Trimethoxysilyl)propyl) ethylenediamin, octhiline (ISO); 2-octyl-2H-isothiazol-3-one; [OIT]. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Last update date (ENKE-Werk)	20.12.2022
Moy Materials Ltd version prepared by	Martin Bidewell

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.