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Safety Data Sheet

Seelex FS

Sealing Products

Section 1: Identification of the article and the company

- 1.1. Identification:** Seelex FS
- 1.2. Use:** Food grade sanitary silicone.
- 1.3. Details of the supplier of the safety data sheet:**

Fixfast Ltd
Merlin House
Seven Mile Lane
Borough Green
Sevenoaks
Kent
TN15 8QY

Email of Competent person responsible for SDS: quality@fixfast.com

- 1.4. Emergency telephone:** +44 (0) 800 304 7616 (Monday - Friday, normal office hours only)

Section 2: Hazards identification

2.1 Classification of the mixture

Regulation EC 1272/2008
Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2 Label elements

Regulation EC 1272/2008 (CLP)

Hazardous components to be indicated on label:

EUH - statements

EUH210 - Safety data sheet available on request.
EUH208 - Contains N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl ethylenediamine, Methyl tris-(methyl ethyl ketoximo) silane, 3-(2-aminoethylamino) propyltrimethoxysilane, Tetrakis(methylethylketoximino) silane, 3-aminopropyltriethoxysilane.
May produce an allergic reaction.

2.3 Other hazards

Contains PBT/vPvB substances ≥ 0.1 % assessed in accordance with REACH Annex XIII

Section 3: Composition/information on ingredients**3.1 Substance:** Not applicable.**3.2 Mixtures:**

Name	Product Identifier	%	Classification According to Reg. (EC) 1278/2008 (CLP)
Hydrocarbons, C18-C24, n-alkanes, isoalkanes, cyclics, <2% aromatics	(CAS-No.) 1437280-85-7 (EC-No.) 940-734-7 (REACH-no) 01-2120078782-46	10 - 15	Asp. Tox. 1, H304
Methyl tris-(methyl ethyl ketoximo) silane	(CAS-No.) 22984-54-9 (EC-No.) 245-366-4 (REACH-no) 01-2119987100-43	1 - 5	Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373
Dodecamethylcyclohexasiloxaan substance listed as REACH Candidate (Dodecamethylcyclohexasiloxane (D6)) non-classified PBT substance, non-classified vPvB substance	(CAS-No.) 540-97-6 (EC-No.) 208-762-8	0,1 - 1	Not classified

Specific concentration limits

Name	Product Identifier	Specific concentration limits
Methyl tris-(methyl ethyl ketoximo) silane	(CAS-No.) 22984-54-9 (EC-No.) 245-366-4 (REACH-no) 01-2119987100-43	(3,755 =<C < 100) Skin Sens. 1, H317

*for full text of Hazard statements see section 16.

Section 4: First aid measures**4.1 Description of first aid measures****First-aid measures after inhalation**
First-aid measures after skin contact

Remove victim to fresh air.

After contact with skin, wash immediately and thoroughly with water and soap.

First-aid measures after eye contact

Rinse immediately with plenty of water. Seek medical attention if ill effect or irritation develops.

First-aid measures after ingestion

Rinse mouth.

4.2 Most important symptoms and effects both acute and delayed**Symptoms/effects after inhalation**

Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact

Not expected to present a significant skin hazard under anticipated conditions of normal use.

Symptoms/effects after eye contact

Direct contact with the eyes is likely slightly irritating.

Symptoms/effects after ingestion

Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

Section 5: Fire-fighting measures**5.1 Extinguishing Media:**

All extinguishing media allowed.

5.2 Special Hazards:

No additional information available

5.3 Advice for firefighters:**Precautionary measures fire:**

Exercise caution when fighting any chemical fire. Evacuate unnecessary personnel. Do not breathe fumes from fires or vapours from decomposition.

Firefighting instructions:

Cool down the containers exposed to heat with a water spray. Wear a self contained breathing apparatus.

Protection during firefighting:

Do not allow run-off from fire fighting to enter drains or water courses.

Other information:

Section 6: Accidental release measures**6.1: Personal precautions and protective equipment**

General Measures:	[In case of inadequate ventilation] wear respiratory protection. Equip cleanup crew with proper protection.
6.1.1: For non-emergency personnel	No additional information available.
6.1.2: For emergency responders	No additional information available.
6.2: Environmental precautions	No additional information available.
6.3: Method for clean up	On land, sweep or shovel into suitable containers.
6.4: Reference to other sections	No additional information available.

Section 7: Handling and storage

7.1. Precautions for safe handling:	
Handling temperature	5-40°C
Hygiene measures	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including any incompatibilities:	
Storage conditions	Store in a dry, well-ventilated area
Maximum storage period	18 months
Storage temperature	5-25°C
7.2. Specific end use(s):	No additional information available.

Section 8: Exposure controls/personal protection

8.1. Control Parameters:	No additional information available.
8.2. Exposure controls:	
Engineering Measures:	Ensure good ventilation of the work station.
Hand protection:	Time of penetration is to be checked with the glove producer. Please follow instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear.

Type	Product Identifier	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)		> 0,1		EN ISO 374

Eye protection

Type	Use	Condition	Standard
Safety glasses	droplet	With side shields	EN 166

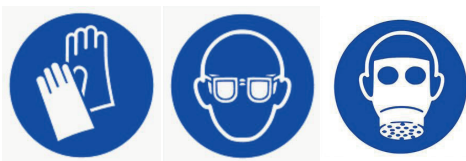
Skin and body protection

No special clothing/skin protection equipment is recommended under normal conditions of use.

Respiratory equipment

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

Type	Filter type	Condition	Standard
Gas mask	ABEK	If conc. in air > exposure limit, Long term exposure	

**Consumer exposure controls:**

Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Wash hands and other exposed areas with soap and water before leaving work.

Other information:

Do not eat, drink or smoke during use. Wash contaminated clothing before reuse.

Section 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties:**

physical state	liquid
appearance	paste
colour	according to product specification
odour	characteristic
density	1,39 g/ml
solubility	water : negligible

9.2. Other information:

No additional information available.

Section 10: Stability and reactivity**10.1. Reactivity:**

No dangerous reactions known.

10.2 Chemical stability:

Stable under normal conditions

10.3 Possibility of Hazardous reactions:

None under normal use

10.4 Conditions to avoid:

No additional information available.

10.5 Incompatible materials:

No additional information available.

10.6 Hazardous decomposition products:

None under normal use

Section 11: Toxicological information**11.1 Information on Toxicological effects.**

Acute toxicity (oral):	Not classified
Acute toxicity (dermal):	Not classified
Acute toxicity (inhalation):	Not classified

Methyl tris-(methyl ethyl ketoxlmo) silane (22984-54-9)	
LD50 oral rat	2463 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
Dodecamethylcyclohexasiloxaan (540-97*6)	
LD50 oral rat	2000 mg/kg
LD50 dermal rat	2000 mg/kg
Hydrocarbons, C18-C24, n-alkanes, isoalkanes, cyclics, <2% aromatics (1437280-85-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation:	not classified
Serious eye damage/irritation:	not classified
Respiratory or skin sensitization:	not classified
Germ cell mutagenicity:	not classified
Carcinogenicity :	not classified
Reproductive toxicity :	not classified

Methyl tris-(methyl ethyl ketoxlmo) silane (22984-54-9)	
NOAEL (animal/male, FO/P)	> = 250 mg/kg (OECD 422 method)
NOAEL (animal/male, FO/P)	> = 250 mg/kg (OECD 422 method)

STOT-single exposure :	not classified
STOT -repeated exposure :	not classified

Section 11: Toxicological information - continued

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	
LOAEL (oral, rat, 90 days)	50 mg/kg bodyweight/day
NOAEL (subacute, oral, animal/male, 28 days)	10 mg/kg bodyweight (OECD 422 method)

Dodecamethylcyclohexasiloxaan (540-97-6)	
LOAEL (oral, rat, 90 days) NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day
LOAEC (inhalation, rat, gas, 90 days)	10 ppmv/6h/day
Aspiration hazard	not classified

Section 12: Ecological information**12.1. Eco toxicity:****Acute aquatic toxicity**

Not classified

Chronic aquatic toxicity

Not classified

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	
LCS0 fish 1	120 mg/l Oncorhynchus mykiss (Rainbow trout)
LCS0 fish 2	972,34 mg/l (OECD 203 method)
ECS0 Daphnia 1	231,84 mg/l (OECD 202 method)
ECS0 72h algae (1)	18,45 mg/l (OECD 201 method)
ErCS0 (algae)	72h 94 mg/l Pseudokirchneriella subcapitata
NOEC (acute)	57,67 mg/l (OECD 204 method)
NOEC (chronic)	> = 115,34 mg/l (OECD 211 method)
NOEC chronic fish	57,67 mg/l

Dodecamethylcyclohexasiloxaan (540-97-6)	
ECS0 other aquatic organisms 1	> 420 mg/l
ECS0 72h algae (1)	≈ 0,002 mg/l OECD 201
NOEC chronic fish	≈ 4,4 µg/l Pimephales promelas
NOEC chronic crustacea	0,0046 mg/l
NOEC chronic algae	>= 0,002 mg/l

Hydrocarbons, C18-C24, n-alkanes, isoalkanes, cyclics, <2% aromatics (1437280-85-7)	
LC50 fish 1	> 100 mg/l
EC50 Daphnia 1	> 100 mg/l
EC50 72h algae (1)	> 100 mg/l

12.2. Persistence and degradability:

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	
Biodegradation	28d 0 % (OECD 301A method)

Dodecamethylcyclohexasiloxaan (540-97-6)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	4,5 % (OECD 310 method)

Section 12: Ecological information - continued**12.3. Bio accumulative potential:**

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	
Log Pow	9, 83
Dodecamethylcyclohexasiloxaan (540-97-6)	
Log Pow	8, 87
Log Kow	8
Hydrocarbons, C18-C24, n-alkanes, Isoalkanes, cyclics, <2% aromatics (1437280-85-7)	
Log Pow	> 7,2

12.4. Mobility in soil:

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	
Log Koc	5,481 EPA (Environmental Protection Agency)

12.5. Results of PBT & vPvB assessment:

Component	
Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Dodecamethylcyclohexasiloxaan (540- 97-6)	This substance/mixture meets the PBT criteria of REACH regulation, annex XIII This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects:

No additional information available

Section 13: Disposal considerations**13.1 Waste treatment methods**

Regional legislation (waste)
European List of Waste (LoW) code

Disposal must be done according to official regulations.
08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances
08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09

Section 14: Transport information

In accordance with ADR

14.1 UN number:	not applicable
14.2 Proper shipping name:	not applicable
14.3 Transport hazard class:	not applicable
14.4 Packing group:	not applicable
14.5 Environmental hazards:	not applicable
14.6 Special precautions for users:	Overland transport - not applicable
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:	Not applicable

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Methyl tris-(methyl ethyl ketoximo) silane
(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Methyl tris-(methyl ethyl ketoximo) silane - Hydrocarbons, C18-C24, n-alkanes, isoalkanes, cyclics, <2% aromatics

Contains a substance on the REACH candidate list in concentration >0.1 % or with a lower specific limit:
Dodecamethylcyclohexasiloxane (D6) (EC 208-762-8, CAS 540-97-6)
Contains no REACH Annex XIV substances

15.2 Chemical safety assessment

No additional information available

Section 16: Other information

Full text of H- and EUH-statements ·

Asp. Tox. 1	Eye Irrit. 2	Aspiration hazard, Category 1
Eye Irrit. 2		Serious eye damage/eye irritation, Category 2
Flam. Liq. Not classified		Flammable liquids Not classified
Skin Sens. 1		Skin sensitisation, Category 1
STOT RE 2		Specific target organ toxicity - Repeated exposure, Category 2
H304		May be fatal if swallowed and enters airways
H317		May cause an allergic skin reaction
H319		Causes serious eye irritation
H373		May cause damage to organs through prolonged or repeated exposure
EUH208		Contains N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine, Methyl tris-(methyl ethyl ketoximo) silane, 3-(2-aminoethylamino)propyltrimethoxysilane, Tetrakis(methylethylketoximino) silane, 3-aminopropyltriethoxysilane. May produce an allergic reaction.
EUH210		Safety data sheet available on request

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the CLP Regulations. The product should not be used for purposes other than those identified without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular application.



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ISO 9001, ISO 14001
OHSAS 18001