

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

LEAD SAFETY DATA SHEET

- 1.1 Product Identifier: SILOXALS**
Product form: Mixture
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Relevant uses: Sealant
Main use category: Professional use
Uses advised against: No additional information available
- 1.3 Details of the supplier of the safety data sheet**
Siloxa Building Chemicals
The Office
Three Pillars Business Park
Sutton-in-the-Isle
Cambridgeshire
CB6 2RU
- 1.4 Emergency telephone number: 07970287971**

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
Classification according to Regulation (EC) No. 1272/2008 [CLP]: Not classified
- 2.2 Label elements:**
CLP Regulation (EC) n° 1272/2008:

EUH-statements:
EUH208 - Contains Methyl tris-(methyl ethyl ketoximo) silane, 3-aminopropyltriethoxysilane, 3-(2-aminoethylamino)propyltrimethoxysilane. May produce an allergic reaction.
EUH210 - Safety data sheet available on request.
- 2.3 Other hazards:**
Contains PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:
Non-applicable

3.2 Mixture

Identification	Chemical Name/Classification		Concentration %
(CAS-No.) 64742-88-7 (EC-No.) 919-029-3 (REACH-no) 01-2119457735-29	Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics		10-25
	Regulation 1272/2008	Asp. Tox. 1: H304	
(CAS-No.) 22984-54-9 (EC-No.) 245-366-4 (REACH-no) 01-2119987100-43	Methyl tris-(methyl ethyl ketoximo) silane		1-5
	Regulation 1272/2008	Eye Irrit. 2: H319 Skin Sens.1: H317 STOT RE 2: H373	
(CAS-No.) 540-97-6 (EC-No.) 208-762-8 listed as REACH Candidate (Dodecamethylcyclohexa siloxane (D6)) PBT substance vPvB substance	Dodecamethylcyclohexasiloxaan substance		0.1-1
	Regulation 1272/2008	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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

In case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort. Showing the SDS of this product.

By inhalation:

This product is not expected to present a significant hazard under anticipated conditions of normal use. However, in case of symptoms remove the person affected from the exposure area and provide with fresh air.

By skin contact:

This product is not expected to present a significant hazard under anticipated conditions of normal use. However if a person is affected rinse skin, or shower the person affected, with plenty of cold water and neutral soap.

By eye contact:

This product is not expected to present a significant eye contact hazard under anticipated conditions of normal use. If eye irritation persists get medical advice/attention. Rinse immediately with plenty of water.

By ingestion:

This product is not expected to present a significant hazard under anticipated conditions of normal use.
Rinse out the mouth.

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

Acute and delayed effects are indicated above and in sections 2 and 11.

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

No additional information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

All extinguishing media are allowed. Use extinguishing media appropriate for the surrounding fire.

5.2 Special hazards arising from the substance or mixture:

No fire hazard.

5.3 Advice for firefighters:

Wear a self-contained breathing apparatus when firefighting. Evacuate unnecessary personnel. Exercise caution when fighting any chemical fire. Cool down the containers exposed to heat with a water spray. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

General measures: Ensure adequate air ventilation. Spills of this product present a serious slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip clean-up crew with proper protection. Equip rescue crew with proper protection.

6.2 Environmental precautions:

Do not allow run-off into drains or water courses.

6.3 Methods and material for containment and cleaning up:

Collect spillage for containment. Methods for cleaning up: Sweep or shovel spills into appropriate container for disposal.

6.4 Reference to other sections:

No additional information available.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Precautions for safe handling: Handle in accordance with good industrial hygiene and safety procedures. Do not eat and do not drink during use. Avoid contact with skin, eyes and clothing.

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:

A.- Technical Measures for Storage

Minimum Temperature: 5°C

Maximum Temperature: 25°C

Maximum storage period: 12 months

B.- General Conditions for Storage:
Store closed in a dry and cool area.

- 7.3 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:**

Appropriate engineering controls:


Ensure good ventilation of the work station. Emergency eye wash bottle with clean water should be available.

Respiratory protection:


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

Hand protection:

In case of repeated or prolonged contact wear gloves. Time of penetration is to be checked with the glove producer. Please follow the 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.

Pictogram	Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Disposable gloves	Nitrile rubber(NBR)	3 (> 60 minutes)	> 0.3		EN ISO 374

Eye protection:

Pictogram	Type	Use	Characteristics	Standard
	Safety glasses		With side shields	EN 166

Skin and body protection:

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

Environmental exposure controls:

Do not allow to enter into water courses or drains.

Consumer exposure controls:

Do not eat, drink or smoke when using this product.

Additional measures:

Handle in accordance with good industrial hygiene and safety procedures. Immediately take off all contaminated clothing. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking, and when leaving work.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties:**

Physical state	: Liquid
Appearance	: Pasty
Colour	: According to product specification-grey
Odour	: Characteristic.
Odour Threshold	: Not available

Volatility:

Boiling point at atmospheric pressure:	Not available
Vapour pressure:	Not available
Evaporation rate:	Not available

Product description:

Density:	1.3g/ml
Relative density:	1.351
Dynamic viscosity:	Not available
Kinematic viscosity:	Not available
Concentration:	Not available
pH:	Not available
Vapour density:	Not available
Partition coefficient n-octanol/water:	Not available
Solubility in water:	Insoluble
Solubility properties:	Not available
Decomposition temperature:	Not available
Melting point/freezing point:	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

Flammability:

Flash Point:	Not available
Flammability (solid, gas):	Not available
Autoignition temperature:	Not available
Lower flammability limit:	Not available
Upper flammability limit:	Not available

Explosive:

Lower explosive limit:	Not available
Upper explosive limit:	Not available

9.2 Other information:

Surface tension:	Not available
Refraction index:	Not available
VOC content:	<100g/l

SECTION 10: STABILITY AND REACTIVITY

- 10.1

Reactivity:

No dangerous reactions known under normal conditions of use.
- 10.2

Chemical stability:

Stable at ambient temperature and under normal conditions of use.
- 10.3

Possibility of hazardous reactions:

None under normal conditions.
- 10.4

Conditions to avoid:

No additional information available.
- 10.5

Incompatible materials:

No additional information available.
- 10.6

Hazardous decomposition products:

Additional hazards when processed, release of (highly) toxic gases/vapours. Methanol. 2 Butanon-oxim.

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

Identification	Acute toxicity		Genus
Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	LD50 oral	2463 mg/kg (OECD 401 method)	Rat
	LD50 dermal	> 2000 mg/kg (OECD 402 method)	Rat
Polydimethylsiloxaan (63148-62-9)	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal	>2008 mg/kg	Rat
Pyrogenic micro-dispersed silica, synthetic X-ray amorphous silicon dioxide (112945-52-5)	LD50 oral	>5000mg/kg	Rat
	LD50 dermal	5000 mg/kg	Rabbit
	LC50 inhalation (Dust/Mist - mg/l/4h)	> 0.139 mg/l/4h	Rat
Dodecamethylcyclohexasiloxaan (540-97-6)	LD50 oral	>2000 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	Rat
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-88-7)	LD50 oral	5000 mg/kg (OECD 401 method)	Rat
	LD50 dermal	3160 mg/kg (OECD 402 method)	Rabbit
Calcium/Magnesium Carbonate (16389-88-1)	LD50 oral	>5000mg/kg	Rat

- Skin corrosion/irritation : Not classified.
- Serious eye damage/irritation : Not classified.
- Respiratory or skin sensitisation : Not classified.
- Germ cell mutagenicity : Not classified.
- Carcinogenicity : Not classified.
- Reproductive toxicity : Not classified.

Identification		
Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	NOAEL (animal/male, F0/P)	>= 250 mg/kg (OECD 422 method)
	NOAEL (animal/female, F0/P)	>= 250 mg/kg (OECD 422 method)
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-88-7)	NOAEL (animal/male, F0/P)	> 1000 mg/kg (OECD 415 method)

	NOAEL (animal/male, FI)	> 1000 mg/kg (OECD 414 method)
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STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Identification		
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)	≈ 1000 mg/kg bodyweight/day
	LOAEC (inhalation, rat, gas, 90 days)	10 ppmv/6h/day
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-88-7)	NOAEL (oral, rat, 90 days)	> 5000 mg/kg bodyweight/day (OECD 408 method)

Aspiration hazard : Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	LC50 fish 1	> 120 mg/l Oncorhynchus mykiss (Rainbow trout)
	LC50 fish 2	972.34 mg/l (OECD 203 method)
	EC50 Daphnia I	231.84 mg/l (OECD 202 method)
	EC50 72h algae (I)	18.45 mg/l (OECD 201 method)
	ErC50 (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

Pyrogenic micro-dispersed silica, synthetic X-ray amorphous silicon dioxide (112945-52-5)	LC50 fish I	> 10000 mg/l Brachydanio rerio (zebra-fish)
	EC50 Daphnia I	> 10000 mg/l

Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-88-7)	LC50 fish I	> 1028 mg/l (OECD 203 method)
	EC50 Daphnia I	> 3000 mg/l
	EC50 72h algae (I)	> 10000 mg/l
	NOEC chronic fish	> 1000 mg/l
	NOEC chronic crustacea	1000 mg/l

12.2 Persistence and degradability:

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	Biodegradation	28d 0 % (OECD 301A method)
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Dodecamethylcyclohexasiloxaan (540-97-6)	Persistence and degradability	Not readily biodegradable.
	Biodegradation	4.5 % (OECD 310 method)

Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-88-7)	Persistence and degradability	Readily biodegradable.
	Biodegradation	74 % (OECD 306 method)

12.3 Bioaccumulative potential:

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	Log Pow	9.83
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Dodecamethylcyclohexasiloxaan (540-97-6)	Log Pow	8.87
	Log Kow	8

12.4 Mobility in soil:

Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9)	Log Koc	5.481 EPA (Environmental Protection Agency)
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Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-88-7)	Surface Tension	≈ 28 mN/m at 25 °C
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12.5 Results of PBT and vPvB assessment:

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
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-88-7)	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)	Disposal must be done in a safe manner according to official local/national regulations.
European List of Waste (LoW) Code	08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09
	08 04 09 – waste adhesives and sealants containing organic solvents or other dangerous substances.

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR

14.1 UN Number

ADR	
UN Number	Not applicable

14.2 UN Proper shipping Name

ADR	
UN proper shipping name	Not applicable

14.3 Transport hazard class(es)

ADR	
Transport hazard classes	Not applicable

14.4 Packing Group

ADR	
Packing group	Not applicable

14.5 Environmental Hazard

ADR	
14.5. Environmental hazard	Not applicable

No supplementary information available

14.6 Special precautions for user

Overland transport: Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC code

Not applicable.

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

15.1.1. EU regulations

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

Reference Code	Applicable on	Entry title or description
3	Methyl tris-(methyl ethyl ketoximo) silane - Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	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
3(b)	Methyl tris-(methyl ethyl ketoximo) silane - Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	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

Contains a substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit: Dodecamethylcyclohexasiloxane (D6) (EC208-762-8, CAS 540-97-6)

Contains no REACH Annex XIV substances

VOC content: <100g/l

15.1.2. National regulations

No additional information available

15.2 Chemical safety assessment:

No additional information available

SECTION 16: OTHER INFORMATION

Full text of H- and EUH-statements:

Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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 Methyl tris-(methyl ethyl ketoximo) silane, 3-(2-aminoethylamino)propyltrimethoxysilane, 3-aminopropyltriethoxysilane. May produce an allergic reaction.
EUH210	Safety data sheet available on request.