Revision: 24.03.2025

Safety data sheet according to UK REACH

Printing date 24.03.2025

Version number 5 (replaces version 4)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name SILAN-VERFESTIGUNGSHARZ MS-X 1
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Coating material
- · 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

MUREXIN GmbH

Franz v. Furtenbachstr. 1 A-2700 Wiener Neustadt Tel.: +43 (0)2622/27401

- · Informing department: chemikalieninfo@murexin.com
- · 1.4 Emergency telephone number:

UK National poisons Emergency number.: +44 (0) 870 600 6266

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labelling:

3-(trimethoxysilyl)propylamine

· Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.
P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

· Additional information:

Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacat. May produce an allergic reaction.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- Description: Mixture consisting of the following components with harmless additives.

CAS: 35435-21-3	Triethoxy(2,4,4-trimethylpentyl)silan	10-25%
EINECS: 252-558-1 Reg.nr.: 01-2119555666-27- 0000	♠ Flam. Liq. 3, H226	
CAS: 13822-56-5	3-(trimethoxysilyl)propylamine	≥3-<5%
EINECS: 237-511-5	Eye Dam. 1, H318 Skin Irrit. 2, H315	
CAS: 2996-92-1	Trimethoxyphenylsilan	1-2.5%
EINECS: 221-066-9 Reg.nr.: 01-2119964479-19- 0001	Consisting of: 67-56-1 methanol (0.05%) Plam. Liq. 3, H226 STOT RE 2, H373 Acute Tox. 4, H302	
CAS: 41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacat Repr. 2, H361f Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	≥0.1-<0.25%
CAS: 6674-22-2	1,8-diazabicyclo[5.4.0]undec-7-ene	<0.5%
EINECS: 229-713-7	Acute Tox. 3, H301 Skin Corr. 1B, H314; Eye Dam. 1, H318	

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After inhalation Seek medical treatment in case of complaints.
- · After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- · After swallowing In case of persistent symptoms consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

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· 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Dilute with much water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

No dangerous materials are released.

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Keep containers tightly sealed.
- · Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers: Store only in the original container.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class 10
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

- · Breathing equipment: Not necessary if room is well-ventilated.
- · Hand protection

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- · Eye/face protection Safety glasses recommended during refilling.
- · Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Smell:
Odour threshold:
Melting point/freezing point:

Liquid
Yellow tint
Characteristic
Not determined
Not determined

· Boiling point or initial boiling point and

boiling range 237 °C (35435-21-3 Triethoxy(2,4,4-

trimethylpentyl)silan)

Flammability Not applicable.

· Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined.

Flash point: 42 °C (35435-21-3 Triethoxy(2,4,4-

trimethylpentyl)silan)

Auto-ignition temperature: 251 °C (35435-21-3 Triethoxy(2,4,4-

trimethylpentyl)silan)

· **Decomposition temperature:** Not determined.

• **pH** Mixture is non-soluble (in water).

· Viscosity:

• Kinematic viscosity at 20 °C 15-20 s (DIN 53211/4) dynamic: Not determined.

· Solubility

Water: Not determined.

· Partition coefficient n-octanol/water (log

value) Not determined.

Steam pressure at 25 °C: 0.1 hPa (35435-21-3 Triethoxy(2,4,4-

trimethylpentyl)silan) 0.5 hPa

· Vapour pressure at 50 °C:

· Density and/or relative density

Density at 20 °C
 Relative density
 Vapour density
 Not determined.
 Not determined.

· 9.2 Other information

· Appearance:

· Form: Fluid

Important information on protection of health

and environment, and on safety.

Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive.

· Solvent content:

Solids content: 0.0 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard

classes

Explosives VoidFlammable gases VoidAerosols Void

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Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- · Conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC5	0 valu	es that are relevant for classification:
35435-2	21-3 Tr	iethoxy(2,4,4-trimethylpentyl)silan
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
2996-92	?-1 Trir	methoxyphenylsilan
Oral	LD50	1,049 mg/kg (rat)
Dermal	LD50	3,014 mg/kg (rabbit)
6674-22	?-2 1,8-	-diazabicyclo[5.4.0]undec-7-ene
Oral	LD50	251-300 mg/kg (rat)
Dermal	LD50	>1,233 mg/kg (rabbit)

- · Primary irritant effect:
- Serious eye damage/irritation Causes serious eye damage.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) -
- · 11.2 Information on other hazards

· Endocrine di	srupting properties
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None of the ingredients is listed.

- GE

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic to	xicity:
	3 Triethoxy(2,4,4-trimethylpentyl)silan
EC 50	32 mg/l (G)
2996-92-1	Trimethoxyphenylsilan
EC 50/48h	>100 mg/l (G)
EC 50	>100 mg/l (Acartia Tonsa)
LC50	>100 mg/l (Oncorhynchus mykiss (Regenbogenforelle))
6674-22-2	1,8-diazabicyclo[5.4.0]undec-7-ene
EC 50/48h	50 mg/l (G)

- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Water hazard class (Germany) 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14	4: Transpor	t inf	format	ion

· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void	
ADR, ADN, IIVIDG, IATA	VOIG	
· 14.2 UN proper shipping name		
· ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
·Class	Void	
· 14.4 Packing group		
· ADR, IMDG, IATA	Void	

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. 14.5 Environmental hazards:
. Marine pollutant:
. No
. 14.6 Special precautions for user
. Not applicable.
. 14.7 Maritime transport in bulk according to IMO instruments
. Not applicable.
. UN "Model Regulation":
. Void

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- · Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Relevant phrases
- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H361f Suspected of damaging fertility.
- 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.
- · Contact: chemikalieninfo@murexin.com (+43 02622/27401)
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals

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EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 3: Acute toxicity – Category 4 Skin Corr. 18: Skin corresponding to the control of the corresponding to the corresp

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1 Repr. 2: Reproductive toxicity – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

* * Data compared to the previous version altered.

GB