

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Klebstoff LO-UNI-FIX 290ml

Revision date: 06.06.2018

Product code: ZKR17LO

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Klebstoff LO-UNI-FIX 290ml

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Suitable for gluing and sealing indoors and outdoors. The construction adhesive with a high adhesion power is used for gluing metal, stone and wooden structures, as well as for general construction works where an especially strong connection is required. Adheres well to most construction materials such as wood, bricks, concrete, glass, copper, galvanizes steel, aluminium, etc. The gluing and sealing mass StrongFix 707 has good vibration and noise-suppressing properties.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Lorencic GmbH Nfg. & Co KG
Street: Puchstraße 208
Place: A-8055 Graz
Telephone: +43 (0) 316 / 47 25 64 32 Telefax: +43 (0) 316 / 47 25 64 78
Responsible Department: Dr. Gans-Eichler e-mail: info@tge-consult.de
Chemieberatung GmbH Tel.: +49(0)251/394868-69
Raesfeldstr. 22 www.tge-consult.de
D-48149 Münster

1.4. Emergency telephone number:

Poison Control Centre Vienna: +43 (0) 1 406 43 43

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements**Additional advice on labelling**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
2768-02-7	trimethoxyvinylsilane			1 - < 2,5 %
	220-449-8		01-2119513215-52	
	Flam. Liq. 3, Acute Tox. 4; H226 H332			

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

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Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No known symptoms to date.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Foam. Carbon dioxide. Extinguishing powder. Water spray.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide Nitrogen oxides (NO_x)

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

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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Clean contaminated objects and areas thoroughly observing environmental regulations.

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

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

General protection and hygiene measures: refer to chapter 8

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. Keep container dry.

Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff

Further information on storage conditions

Recommended storage temperature: 5-25°C.

Maximum period of storage (time): 12 months.

7.3. Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
2768-02-7	trimethoxyvinylsilane			
Worker DNEL, long-term		inhalation	systemic	4,9 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,69 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,04 mg/m ³
Consumer DNEL, acute		inhalation	systemic	93,4 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,3 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	26,9 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,3 mg/kg bw/day

PNEC values

CAS No	Substance	Environmental compartment	Value
2768-02-7	trimethoxyvinylsilane		
		Freshwater	0,34 mg/l

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Freshwater (intermittent releases)	3,4 mg/l
Marine water	0,034 mg/l
Marine water (intermittent releases)	3,4 mg/l
Freshwater sediment	1,24 mg/kg
Marine sediment	0,124 mg/kg
Micro-organisms in sewage treatment plants (STP)	110 mg/l
Soil	0,052 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls
Appropriate engineering controls

No special technical protective measures are necessary.

Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Eye/face protection

Wear eye/face protection. DIN EN 166

Hand protection

Wear suitable gloves.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Environmental exposure controls

Do not allow to enter into surface water or drains.

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

Physical state:	liquid	
Colour:	not determined	
Odour:	characteristic	
pH-Value:		N/A

Changes in the physical state

Melting point:		N/A
Initial boiling point and boiling range:		130 °C
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
Flash point:		N/A
Sustaining combustion:		Not sustaining combustion

Explosive properties

none

Lower explosion limits:		N/A
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Upper explosion limits:	N/A
Ignition temperature:	N/A
Auto-ignition temperature	
Gas:	235 °C
Decomposition temperature:	N/A
Oxidizing properties	
none	
Vapour pressure: (at 20 °C)	0,21 hPa
Vapour pressure: (at 50 °C)	1,25 hPa
Density (at 20 °C):	1,86 g/cm ³
Water solubility:	N/A
Solubility in other solvents	
not determined	
Partition coefficient:	not determined
Viscosity / dynamic:	N/A
Viscosity / kinematic:	not determined
Flow time:	not determined
Vapour density:	N/A
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	not determined

9.2. Other information

Solid content:	not determined
No information available.	

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

No information available.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from heat. moisture.

10.5. Incompatible materials

strong alkalis. Strong acid. Water.

10.6. Hazardous decomposition productsCan be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide Nitrogen oxides (NO_x)**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

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Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
2768-02-7	trimethoxyvinylsilane					
	oral	LD50 >5000 mg/kg		Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg		Rabbit	ECHA Dossier	
	inhalation (4 h) vapour	LC50 16,8 mg/l		Rat	ECHA Dossier	
	inhalation aerosol	ATE 1,5 mg/l				

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Irritant effect on the skin: Not an irritant.

Irritant effect on the eye: Not an irritant.

Sensitising effects

Based on available data, the classification criteria are not met.

The product is: no danger of sensitization. The statement is derived from the properties of the components.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

trimethoxyvinylsilane:

In vitro mutagenicity/genotoxicity: Method: OECD 476. Result / evaluation: negative. In vivo mutagenicity/genotoxicity: Method: OECD Guideline 489 (In vivo Mammalian Alkaline Comet Assay). Result / evaluation: negative.; Reproductive toxicity: Method: OECD 422. Species: Rat. Result / evaluation: NOAEL = 250 mg/kg bw/day female.; Developmental toxicity/teratogenicity: Method: EPA OTS 798.4350 (Inhalation Developmental Toxicity Screen) Species: Rat. Result / evaluation: NOAEL = 25 ppm Literature information: ECHA Dossier

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

trimethoxyvinylsilane:

Subacute oral toxicity: Method: OECD 422. Species: Rat. Result / evaluation: NOAEL = 62,5 mg/kg bw/day;

Subchronic inhalation toxicity: Species: Rat. Result / evaluation: NOAEC 100 ppm. Literature information:

ECHA Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No information available.

SECTION 12: Ecological information
12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
2768-02-7	trimethoxyvinylsilane					
	Acute fish toxicity	LC50 191 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier	
	Acute algae toxicity	ErC50 210 mg/l	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	

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	Acute crustacea toxicity	EC50 mg/l	168,7	48 h	Daphnia magna	ECHA Dossier	
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12.2. Persistence and degradability

No information available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
2768-02-7	trimethoxyvinylsilane			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	51%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2768-02-7	trimethoxyvinylsilane	-2

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to EAKV:

Waste disposal number of waste from 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

Waste disposal number of 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

Waste disposal number of contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

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SECTION 14: Transport information**Land transport (ADR/RID)**

- 14.1. UN 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:** 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:** 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:** 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

refer to chapter 6-8

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

not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC): 2,28 %
2004/42/EC (VOC): 42,51 g/l
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII: not relevant

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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Changes

- Rev. 1,0 Initial release 04.06.2014
- Rev. 2,0 07.06.2018; Changes in chapter: 1-16.

Abbreviations and acronyms

- ADR: Accord européen sur le transport des marchandises dangereuses par Route
- CAS Chemical Abstracts Service
- DNEL: Derived No Effect Level
- IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
- LOAEL: Lowest observed adverse effect level
- LOAEC: Lowest observed adverse effect concentration
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- NOAEL: No observed adverse effect level
- NOAEC: No observed adverse effect level
- NTP: National Toxicology Program
- N/A: not applicable
- OSHA: Occupational Safety and Health Administration
- PNEC: predicted no effect concentration
- PBT: Persistent bioaccumulative toxic
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- SARA: Superfund Amendments and Reauthorization Act
- SVHC: substance of very high concern
- TRGS Technische Regeln fuerGefahrstoffe
- TSCA: Toxic Substances Control Act
- VOC: Volatile Organic Compounds
- VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe
- WGK: Wassergefaehrdungsklasse

Relevant H and EUH statements (number and full text)

- H226 Flammable liquid and vapour.
- H332 Harmful if inhaled.

Further Information

- Classification according EC regulation 1272/2008 (CLP): - Classification procedure:
- Health hazards: Calculation method.
- Environmental hazards: Calculation method.
- Physical hazards: On basis of test data and / or calculated and / or estimated.

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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)