



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

1.1. Product identifier

Name of product

Flex 310 M 2K Comp. A

Code-Nr. 133051

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

Recommended intended purpose(s)

permanently elastic sealant

1.3. Details of the supplier of the safety data sheet

Distributor

WEICON GmbH & Co. KG

Königsberger Str. 255,, DE-48157 Münster

Phone ++49(0)251 / 9322 - 0, Fax ++49(0)251 / 9322 - 244

E-Mail : msds@weicon.de

Internet : www.weicon.de

Advice

Produktsicherheit / Product-Safety-Department

Phone ++49(0)251 / 9322 - 0

E-mail (competent person):

msds@weicon.de

1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:

++44 1865 407333 (English)

TRANSPORT EMERGENCY CONTACT - UK, UAE, South

Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer

WEICON GmbH & Co. KG

Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):

Tel: ++49 69 222 25285 (Deutsch, Englisch)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Additional hints

This mixture is not classified as hazardous according to Regulation (EC) 1272/2008 [GHS].

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

No information available.

2.3. Other hazards

High slip hazard because of leaking or spilled product.

**Results of PBT and vPvB assessment**

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

SECTION 3: Composition/ information on ingredients**3.1. Substances**

not applicable

3.2. Mixtures**Description**

Sealant

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
2768-02-7	220-449-8	trimethoxyvinylsilane	1 < 5	Flam. Liq. 3, H226 / Acute Tox. 4, H332
2530-83-8	219-784-2	[3-(2,3-Epoxypropoxy)propyl]trimethoxysilan	1 - 5	Skin Corr. 1, H318 / Aquatic Chronic 3, H412
13822-56-5	237-511-5	3-(trimethoxysilyl)propylamine	1 < 5	Skin Irrit. 2, H315 / Eye Dam. 1, H318

REACH

CAS No	Name	REACH registration number
2768-02-7	trimethoxyvinylsilane	01-2119513215-52-xxxx
2530-83-8	[3-(2,3-Epoxypropoxy)propyl]trimethoxysilan	01-2119513212-58
13822-56-5	3-(trimethoxysilyl)propylamine	01-2119510159-45

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

Remove contaminated soaked clothing immediately.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Call for a doctor immediately.

Rinse out mouth thoroughly with water.

Induce vomiting.

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

No information available.



SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

Nitrogen gases (NO_x)

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Sulphur dioxide (SO₂)

Hydrogen-Chloride

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Do not inhale explosion and/or combustion gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.

Use personal protective clothing.

Use breathing apparatus if exposed to vapours/dust/aerosol.

High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand).

Flush away residues with water.

After taking up the material dispose according to regulation.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Take the usual precautions when handling with chemicals.

**General protective measures**

Do not inhale vapours.

Avoid contact with eyes and skin

Hygiene measures

At work do not eat, drink and smoke.

Work in rooms with good ventilation.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Protect from heat and sunlight.

The vapours of product are heavier than air.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in closed original container.

Advice on storage compatibility

Do not store together with animal feedstuffs.

Do not store together with food.

Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

Protect from heat and direct solar radiation.

Store in a dry place.

7.3. Specific end use(s)**Recommendation(s) for intended use**

See section 1.2

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****DNEL-/PNEC-values****DNEL worker**

CAS No	Substance name	Value	Code	Remark
13822-56-5	3-(trimethoxysilyl)propylamine	8,3 mg/kg bw/day	DNEL long-term dermal (systemic)	
		58 mg/m ³	DNEL long-term inhalative (systemic)	
2530-83-8	[3-(2,3-Epoxypropoxy)propyl] trimethoxysilan	21 mg/kg bw/day	DNEL long-term dermal (systemic)	
		147 mg/m ³	DNEL long-term inhalative (systemic)	
2768-02-7	trimethoxyvinylsilane	0,69 mg/kg bw/day	DNEL long-term dermal (systemic)	
		4,9 mg/m ³	DNEL long-term inhalative (systemic)	

DNEL Consumer

CAS No	Substance name	Value	Code	Remark
13822-56-5	3-(trimethoxysilyl)propylamine	17 mg/m ³	DNEL long-term inhalative (systemic)	
		5 mg/kg bw/day	DNEL long-term dermal (systemic)	



Safety Data Sheet according to Regulation (EC)

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Flex 310 M 2K Comp. A**DNEL-/PNEC-values (continued)**

CAS No	Substance name	Value	Code	Remark
		5 mg/kg bw/day	DNEL long-term oral (repeated)	
2768-02-7	trimethoxyvinylsilane	93,4 mg/m ³	DNEL acute inhalative (systemic)	
		1,04 mg/m ³	DNEL long-term inhalative (systemic)	
		26,9 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	
		0,3 mg/kg bw/day	DNEL acute dermal, short-term (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
13822-56-5	3-(trimethoxysilyl)propylamine	1,2 mg/kg dw	PNEC sediment, freshwater	
		0,12 mg/kg dw	PNEC sediment, marine water	
		0,33 mg/l	PNEC aquatic, freshwater	
		0,033 mg/l	PNEC aquatic, marine water	
2530-83-8	[3-(2,3-Epoxypropoxy)propyl] trimethoxysilan	1 mg/l	PNEC aquatic, freshwater	
		3,6 mg/kg dw	PNEC sediment, freshwater	
		0,36 mg/kg dw	PNEC sediment, marine water	
		10 mg/l	PNEC sewage treatment plant (STP)	
		0,1 mg/l	PNEC aquatic, marine water	
2768-02-7	trimethoxyvinylsilane	0,12 mg/kg dw	PNEC sediment, marine water	
		0,034 mg/l	PNEC aquatic, marine water	
		0,34 mg/l	PNEC aquatic, freshwater	
		1,24 mg/kg dw	PNEC sediment, freshwater	
		3,4 mg/l	PNEC aquatic, intermittent release	

Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls**Respiratory protection**

Not required

Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile rubber; 0,4mm; 480min;60min.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

**Eye protection**

tightly fitting goggles

Other protection measures

protective clothing

Appropriate engineering controls

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

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

pasty

Colour

dark grey

Odour

characteristic

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling point	not determined				
melting point	not determined				
Flash point	> 98 °C				
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Self ignition temperature					The product is not self-igniting.
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	1,2 g/cm ³	20 °C			
Vapour density	> 2				
Solubility in water					more or less insoluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P OW)	not applicable				



	Value	Temperature	at	Method	Remark
Decomposition temperature	not determined				
Viscosity dynamic	not determined				
Viscosity kinematic	not determined				
Oxidising properties	no				
Explosive properties	no				
9.2. Other information	No information available.				

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Sulphur dioxide (SO₂)

Nitrous gases

Carbon monoxide and carbon dioxide.

Hydrogen-Chloride

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	2970 mg/kg	rat	OECD 401	CAS: 13822-56-5
LD50 acute dermal	11,3 mg/kg	rabbit	OECD 402	CAS: 13822-56-5
LC50 acute inhalation	> 5,3 mg/l (4 h)	rat	OECD 403	CAS: 2530-83-8



	Value/Validation	Species	Method	Remark
Skin irritation	non-irritant			
Eye irritation	non-irritant			experiences
Skin sensitization	non-sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Subchronic Toxicity				No toxicity
Chronic Toxicity				No toxicity
Mutagenicity				No experimental in-vitro information available.
Reproduction-Toxicity				No indications of toxic effects were observed in reproduction studies in animals.
Carcinogenicity				No indications of carcinogenic effects are available from long-term trials.

Experiences made from practice

Experiences at humans: may cause hypersensitivity reactions on skin in case of persons suffering from hypersensitivity. Frequent contact specially if dried out may cause skin and eye irritations.

Additional information

The product is to be handled with the caution usual with chemicals. Other hazardous properties may not be excluded.

SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicological effects**

	Value	Species	Method	Validation
Fish	LC50 55 mg/l (96 h)	Cyprinus carpio	EUMeth. C.1.	CAS: 2530-83-8
Daphnia	LC50 168,7 mg/l (48 h)	Daphnia magna	EU EC C.2 Acute Toxicity for Daphnia	CAS: 2768-02-7
Algae	EbC50 250 mg/l (72 h)	Selenastrum capricornutum		CAS: 2530-83-8
Bacteria	NOEC > 100 mg/l (3 h)	activated sludge	OECD 209	CAS: 2530-83-8

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Biological degradability	37 % (28 d)		EU Method C.4	not readily degradable

12.3. Bioaccumulative potential



The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

12.4. Mobility in soil

No information 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**General regulation**

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Waste code No.**

08 04 10

15 01 02

Name of waste

waste adhesives and sealants other than those mentioned in 08 04 09

plastic packaging

Recommendations for the product

Remove in accordance with local official regulations.

Recommendations for packaging

Dispose of according to the local waste regulations.

Packaging that cannot be cleaned should be disposed of like the product.

General information

Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.



SECTION 15: Regulatory information

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

VOC standard

VOC content	2,87 %
VOC value	32,99 g/L

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

For industrial use only.

Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 8.5

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.