



# SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 16/Dec/2016

Version: 1

Language: en-CA,US

Date of print: 11/Jan/2017

## Flex 310 M Stainless Steel, Adhesive and Sealant

Material number 136560

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### 1. Product and company identification

#### Product identifier

Trade name: Flex 310 M Stainless Steel, Adhesive and Sealant

#### Relevant identified uses of the substance or mixture and uses advised against

General use: Sealant.  
Reserved for industrial and professional use.

#### Details of the supplier of the safety data sheet

Company name: WEICON Inc.  
Street/POB-No.: 20 Steckle Place, Unit 20  
Postal Code, city: Kitchener, Ontario N2E 2C3, CA  
WWW: www.weicon.ca  
E-mail: info@weicon.ca  
Telephone: +1-519-896-5252  
Telefax: +1-519-896-5254  
Dept. responsible for information:  
Product-Safety-Department  
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

#### Emergency phone number

**EMERGENCY CONTACT – Canada (24h): Tel: ++1 866 928 0789 (Toll free)**

**Transport:**

**TRANSPORT EMERGENCY CONTACT - Canada (24h): Tel: ++1 866 928 0789 (Toll free)**

### 2. Hazards identification

#### Emergency overview

Appearance: Form: pasty  
Color: gray  
Odor: characteristic  
Classification: Sensitization - skin 1; Specific Target Organ Toxicity (Repeated Exposure) 2;  
Hazard symbols:



Signal word:

**Warning**

Hazard statements:

May cause an allergic skin reaction.  
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

Do not breathe dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection.  
IF ON SKIN: Wash with plenty of water/soap.  
Get medical advice/attention if you feel unwell.  
Specific treatment (see ' First aid ' on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Dispose of contents/container to hazardous or special waste collection point.



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### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

### Hazards not otherwise classified

With exposure to water, acids, alkalis, product will release methanol.  
Information about methanol: Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 2768-02-7	Trimethoxyvinylsilane	1 - 5 %	Flammable Liquid 3. Acute Toxicity 4 (inhalative). Specific Target Organ Toxicity (Repeated Exposure) 2.
CAS 3069-29-2	N-[3-(Dimethoxymethylsilyl)propyl]ethylenediamine	< 1 %	Eye Damage 1. Sensitization - skin 1.
CAS 1760-24-3	N-(3-(Trimethoxysilyl)propyl)ethylenediamine	< 1 %	Acute Toxicity 4 (inhalative). Eye Damage 1. Sensitization - skin 1. Aquatic toxicity - chronic 2.
CAS 54068-28-9	Diocylbis(pentane-2,4-dionato-O,O')tin	< 1 %	Sensitization - skin 1. Specific Target Organ Toxicity (Single Exposure) 2. Specific Target Organ Toxicity (Repeated Exposure) 2.

## 4. First aid measures

General information:	Take off contaminated clothing and wash it before reuse.
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in case of troubles.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Keep eye wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Do not attempt to pull apart bonded eyelid. Subsequently consult an ophthalmologist.
After swallowing:	Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

### Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

### Information to physician

Treat symptomatically.



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### 5. Fire fighting measures

Flash point/flash point range:

> 100 °C

Auto-ignition temperature: not self-igniting

Suitable extinguishing media:

Extinguishing is to be in accordance with the surrounding fire.

Extinguishing media which must not be used for safety reasons:

Water

#### Specific hazards arising from the chemical

May form dangerous gases and vapours in case of fire.

In case of fire may be liberated: Nitrous fumes, Metallic oxides, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

### 6. Accidental release measures

Personal precautions:

Avoid contact with skin, eyes, and clothing.

Do not breathe vapors/dust/ aerosols. Provide adequate ventilation.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.

Methods for clean-up:

Take up mechanically, placing in appropriate containers for disposal.

### 7. Handling and storage

#### Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.

Wear appropriate protective equipment. Do not breathe vapors/dust/ aerosols.

Avoid contact with skin, eyes, and clothing.

Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

#### Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Protect from moisture contamination. Protect from frost, heat and sunlight.

Hints on joint storage:

Do not store together with: Acids, alkalis, oxidizing agents

Keep away from food, drink and animal feedingstuffs.

Further details:

Do not allow the product to enter the ground.

### 8. Exposure controls / personal protection

#### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
2768-02-7	Trimethoxyvinylsilane	Canada, Ontario: OEL STEL	60 mg/m <sup>3</sup> ; 10 ppm



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### Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

Take off contaminated clothing and wash it before reuse. Avoid contact with the substance. Wash hands before breaks and after work. When using do not eat, drink or smoke. Work place should be equipped with a shower and an eye rinsing apparatus. Keep unprotected people away.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Form: pasty Color: gray
Odor:	characteristic
Odor threshold:	not determined
pH value:	not determined
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	270 °C
Flash point/flash point range:	> 100 °C
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): 0.10 Vol-% UEL (Upper Explosive Limit): 0.20 Vol-%
Vapor pressure:	not determined
Vapor density:	not determined
Density:	at 20 °C: 1.06 g/cm <sup>3</sup>
Water solubility:	slightly miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	No decomposition when used properly.
Viscosity, kinematic:	not determined
Ignition temperature:	420 °C

## 10. Stability and reactivity

Reactivity: No data available



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- Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions  
With exposure to moisture, product will release methanol.
- Conditions to avoid: Protect from moisture contamination.  
Protect from frost, heat and sunlight.
- Incompatible materials: Water, acids, alkalis, oxidizing agents.
- Hazardous decomposition products:  
Methanol.
- Thermal decomposition: No decomposition when used properly.

## 11. Toxicological information

### Toxicological tests

- Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
- Acute toxicity (oral): Based on available data, the classification criteria are not met.
- Acute toxicity (dermal): Based on available data, the classification criteria are not met.
- Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
- ATEmix (calculated): > 20 mg/mL (vapor)
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Eye damage/irritation: Based on available data, the classification criteria are not met.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Sensitization - skin 1 = May cause an allergic skin reaction.
- Germ cell mutagenicity/Genotoxicity: Lack of data.
- Carcinogenicity: Lack of data.
- Reproductive toxicity: Lack of data.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Lack of data.
- Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) 2 = May cause damage to organs through prolonged or repeated exposure.
- Aspiration hazard: Lack of data.
- Other information: Information about Trimethoxyvinylsilane:  
LC50, Rat, inhalative: 16,8 mg/L  
With exposure to moisture, product will release methanol.  
Further hazardous properties cannot be excluded.

## 12. Ecological information

### Ecotoxicity

- Further details: No data available

### Mobility in soil

No data available

### Persistence and degradability

- Further details: No data available



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### Additional ecological information

Volatile organic compounds (VOC):

3.36 % by weight = 35.6 g/L

General information:

Do not allow to enter into ground-water, surface water or drains.

## 13. Disposal considerations

### Product

Recommendation: Dispose of waste according to applicable legislation.

### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.

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

## 14. Transport information

### USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

### Canada: Transportation of Dangerous Goods (TDG)

Shipping name: Not restricted

### Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

### Air transport (IATA)

Proper shipping name: Not restricted

### Further information

No dangerous good in sense of these transport regulations.

## 15. Regulatory information

### National regulations - Canada

No data available

### National regulations - U.S. Federal Regulations

Trimethoxyvinylsilane:	TSCA Inventory: listed TSCA HPVC: not listed
N-[3-(Dimethoxymethylsilyl)propyl]ethylenediamine:	TSCA Inventory: listed TSCA HPVC: not listed
N-(3-(Trimethoxysilyl)propyl)ethylenediamine:	TSCA Inventory: listed TSCA HPVC: not listed
Diocetylbis(pentane-2,4-dionato-O,O')tin:	TSCA Inventory: not listed

## 16. Other information

Text for labeling:

Contains 1 - 5 % Trimethoxyvinylsilane, < 1 %

N-[3-(Dimethoxymethylsilyl)propyl]ethylenediamine, < 1 %

N-(3-(Trimethoxysilyl)propyl)ethylenediamine, < 1 %

Diocetylbis(pentane-2,4-dionato-O,O')tin. Safety data sheet available on request.



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Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 0 (Minimal)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects

Flammability: 0 (Minimal)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		0
PHYSICAL HAZARD		1
		X

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### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.