



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: Feb/16/2016

Version: 1

Language: en-US

Date of print: Feb/26/2016

Flex 310 M, Two-component, fast curing, resin

Article number 133051

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1. Product and company identification

Product identifier

Trade name: Flex 310 M, Two-component, fast curing, resin

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

General use: Sealant/Adhesive.
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

Additional information: WEICON GmbH & Co. KG
Königsberger Straße 255
Münster 48157
www.weicon.de
info@weicon.de
+49(0)251 / 9322 - 0
+49(0)251 / 9322 - 244

Emergency phone number

GIZ, Bonn Germany (English)
Telephone: +49(0)228 / 19 240

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: solid
Form: paste
Color: dark gray
Odor: characteristic
Classification: Eye Irritation - Category 2A;

Hazard symbols:



Signal word: **Warning**
Hazard statements: Causes serious eye irritation.

Precautionary statements: Wash hands and face thoroughly after handling.
Wear protective gloves/protective clothing/eye protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.



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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

Contains epoxy containing compounds. May produce an allergic reaction.
Special danger of slipping by leaking/spilling product.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: hlen)h.

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 2530-83-8	[3-(2,3-Epoxypropoxy)propyl]-trimethoxysilane	1 - 3 %	Eye Damage - Category 1.

4. First aid measures

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.

Following skin contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
Wash contaminated clothing before reuse. Consult a doctor if skin irritation persists.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.
Do not attempt to pull apart bonded eyelid. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Allow the injured person to vomit independently, but only in a fully conscious state.
Rinse mouth with water. Immediately get medical attention.

Most important symptoms/effects, acute and delayed

Causes serious eye irritation.
May produce an allergic reaction.
Shortage of breath

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range: > 208.4 °F

Auto-ignition temperature: not determined

Suitable extinguishing media: Alcohol resistant foam, dry chemical powder, water spray jet, carbon dioxide.

Extinguishing media which must not be used for safety reasons: High power water jet

Specific hazards arising from the chemical

Combustible. May form dangerous gases and vapours in case of fire.
In case of fire may be liberated: sulphur oxides, nitrous fumes, hydrogen chloride, carbon monoxide and carbon dioxide.



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Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing. In case of fire and/or explosion do not breathe fumes.

Additional information:

Cool endangered containers with water jetspray. You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Use a breathing protection against vapors/aerosol. Do not breathe gas/vapor/spray.
Wear protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away. Avoid contact with skin and eyes.

Environmental precautions:

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

Methods for clean-up:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Thoroughly clean surrounding area.

Additional information:

Special danger of slipping by leaking/spilling product.

7. Handling and storage

Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Avoid the formation of aerosol. Do not breathe gas/vapor/spray.
Wear protective equipment. Avoid contact with skin and eyes.
Take off contaminated clothing and wash it before reuse.
When using do not eat, drink or smoke. Wash hands before breaks and after work.

Precautions against fire and explosion:

Combustible. Keep away from sources of ignition - No smoking. Avoid heating effect. Take precautionary measures against static discharges. The vapors of the product are heavier than air.

Storage

Requirements for storerooms and containers:

Keep only in the original container. Protect from heat and direct sunlight.
Store in a dry place. Keep container tightly closed in a cool, well-ventilated place.
Storage stability: 1 year
Qualified materials: synthetic.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Engineering controls

Provide good ventilation and/or an exhaust system in the work area.
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.



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- Respiratory protection: Use a breathing protection against vapors/aerosol.
The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.
- General hygiene considerations:
Avoid contact with skin and eyes. Eye wash facility must be provided.
Do not breathe gas/vapor/spray. Take off immediately all contaminated clothing and wash it before reuse.
When using do not eat, drink or smoke. Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: solid Form: paste Color: dark gray
Odor:	characteristic
Odor threshold:	not determined
pH value:	not determined
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point/flash point range:	> 208.4 °F
Evaporation rate:	no data available
Flammability:	not determined
Explosion limits:	LEL (Lower Explosion Limit): not determined UEL (Upper Explosive Limit): not determined
Vapor pressure:	no data available
Vapor density:	>= 2
Density:	at 68 °F: 1.2 g/cm ³
Water solubility:	practically insoluble
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not determined
Thermal decomposition:	No decomposition when used properly.
Viscosity, dynamic:	not determined
Explosive properties:	No chemical group associated with explosive properties
Oxidizing characteristics:	No chemical group associated with oxidizing properties
Ignition temperature:	not determined

10. Stability and reactivity

Reactivity:	no data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reaction when handled and stored according to provisions.
Conditions to avoid:	Protect from heat and direct sunlight.
Incompatible materials:	None known.



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Hazardous decomposition products:

In case of fire may be liberated: sulphur oxides, nitrous fumes, hydrogen chloride, carbon monoxide and carbon dioxide

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): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

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): Lack of data.

Aspiration hazard: Lack of data.

Other information:

Information about [3-(2,3-Epoxypropoxy)propyl]-trimethoxysilane:

LD50 Rat, oral: 8025 mg/kg (OECD 402).

LD50 Rabbit, dermal: 4250 mg/kg (OECD 402).

LC50 Rat, inhalative: > 5.3 mg/L/4h (OECD 403).

12. Ecological information

Ecotoxicity

Aquatic toxicity:

Information about [3-(2,3-Epoxypropoxy)propyl]-trimethoxysilane:

Algae toxicity:

NOEC algae: <50 mg/L/7d.

Daphnia toxicity:

LC50 acute Daphnia toxicity: 324 mg/L/48h;

NOEC Daphnia magna: >=100 mg/L/21d (OECD211).

Fish toxicity:

LC50 Cyprinus carpio: 55 mg/L/96h.

Bacterial toxicity:

NOEC activated sludge > 100 mg/L/3h (OECD209).

Mobility in soil

no data available

Persistence and degradability

Further details:

Biodegradation: 37% / 28 d

Product is not readily biodegradable.



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Additional ecological information

Volatile organic compounds (VOC):

8 % by weight = 112 g/L

General information:

Do not allow to penetrate into soil, waterbodies or drains. Do not allow uncontrolled discharge of product into the environment.

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

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 - U.S. Federal Regulations

[3-(2,3-Epoxypropoxy)propyl]-trimethoxysilane: TSCA Inventory: listed; EPA flags T
TSCA HPVC: not listed

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling:

Contains 1 - 3 % [3-(2,3-Epoxypropoxy)propyl]-trimethoxysilane. Safety data sheet available on request.

Hazard rating systems:

NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor



HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
	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.