

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]



## wedi® 610

Material number 07690200

Version: 13.1  
Replaces version: 13.0

Revision date: 4/9/2023  
Date of print: 7/12/2023

Page: 1 of 12  
Language: en-GB

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

### 1.1 Product identifier

Trade name: wedi® 610

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

General use: Adhesive/sealant based on silane modified polymers  
Restricted to professional users.

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

Company name: wedi GmbH  
Street/POB-No.: Hollefeldstraße 51  
Postal Code, city: 48282 Emsdetten  
Germany  
WWW: www.wedi.de  
E-mail: info@wedi.de  
Telephone: +49 (0)2572 / 156-0  
Telefax: +49 (0)2572 / 156-3240

Department responsible for information:  
Telephone: +49 (0)2572 / 156-240  
E-mail: TechSystem@wedi.de

### 1.4 Emergency telephone number

**National Poisons Information Service (Birmingham Unit)**  
**Telephone: 844 892 0111**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

### 2.2 Label elements

#### Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

#### Special labelling

EUH208 Contains Trimethoxyvinylsilane and Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine. May produce an allergic reaction.  
EUH210 Safety data sheet available on request.

### 2.3 Other hazards

During hydrolysis, a small amount of methanol is produced.  
Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

The product does not contain any substances classified as PBT or vPvB.

CAS No.	Designation	PBT/vPvB	ED Human	ED Environment
870-08-6	Dioctyltin oxide		List II	List II

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## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119513215-52-xxxx EC No. 220-449-8 CAS 2768-02-7	Trimethoxyvinylsilane Flam. Liq. 3; H226. Acute Tox. 4; H332. Skin Sens. 1B; H317.	< 2.5 %
REACH 01-2119979085-27-xxxx EC No. 309-629-8 CAS 100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine Skin Sens. 1B; H317. Specific concentration limits (SCL): Skin Sens. 1: C ≥ 25%	< 1 %
REACH 01-2119971268-27-xxxx EC No. 212-791-1 CAS 870-08-6	Diocetyl tin oxide STOT SE 2; H371.	< 1 %
REACH 01-2119537297-32-xxxx EC No. 258-207-9 CAS 52829-07-9	Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate Eye Dam. 1; H318. Repr. 2; H361f. Aquatic Acute 1; H400. Aquatic Chronic 2; H411. M-factors: Aquatic Acute 1: M = 1.	< 1 %
REACH 01-2119496195-28-xxxx EC No. 201-083-8 CAS 78-10-4	Tetraethyl silicate Flam. Liq. 3; H226. Acute Tox. 4; H332. Eye Irrit. 2; H319. STOT SE 3; H335.	< 1 %
EC No. 200-659-6 CAS 67-56-1	Methanol Flam. Liq. 2; H225. Acute Tox. 3; H301. Acute Tox. 3; H311. Acute Tox. 3; H331. STOT SE 1; H370. Specific concentration limits (SCL): STOT SE 1; H370: C ≥ 10 % / STOT SE 2; H371: 3 % ≤ C < 10 %	< 2.5 %

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

Additional information: Resulting from the use of the product: methanol (By-product/impurity)

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
Following skin contact:	Remove residues with soap and water. Change contaminated clothing. 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. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.
After swallowing:	Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Seek medical attention.

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

May cause allergic reactions in already sensitized persons.

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

Treat symptomatically.  
During hydrolysis, a small amount of methanol is produced.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: Extinguishing powder, alcohol resistant foam, water spray jet, carbon dioxide.

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

### 5.2 Special hazards arising from the substance or mixture

Combustible. May form dangerous gases and vapours in case of fire.  
Furthermore, there may develop: silicon dioxide, Methanol, carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Hazchem-Code: -

Do not allow fire water to penetrate into surface or ground water.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. Wear appropriate protective equipment. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

### 6.2 Environmental precautions

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

### 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) and place in closed containers for disposal. Never return spills in original containers for re-use.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information:

Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe dust/fume/gas/mist/vapours/spray.  
Do not get in eyes, on skin, or on clothing.  
Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.  
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:  
Store container tightly closed in a dry and cool place.  
Recommended storage temperature: 10-35 °C.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
78-10-4	Tetraethyl silicate	Great Britain: WEL-TWA	44 mg/m <sup>3</sup> ; 5 ppm
67-56-1	Methanol	Great Britain: WEL-STEL	333 mg/m <sup>3</sup> ; 250 ppm (may be absorbed through the skin)
		Great Britain: WEL-TWA	266 mg/m <sup>3</sup> ; 200 ppm (may be absorbed through the skin)

Additional information: During hydrolysis, a small amount of methanol is produced.

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### DNEL/DMEL:

Information about Trimethoxyvinylsilane:

DNEL workers, systemic, long-term, inhalative: 27.6 mg/m<sup>3</sup>  
DNEL workers, systemic, long-term, dermal: 3.9 mg/kg bw/d  
DNEL consumers, systemic, long-term, inhalative: 18.9 mg/m<sup>3</sup>  
DNEL consumers, systemic, long-term, dermal: 7.8 mg/kg bw/d  
DNEL consumers, systemic, long-term, oral: 0.3 mg/kg bw/d

Information about Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine:

DNEL workers, local, long-term, inhalative: 3.35 mg/m<sup>3</sup>  
DNEL consumers, long-term, inhalative: 0.83 mg/m<sup>3</sup>

Information about Dioctyltin oxide:

DNEL consumers, systemic, long-term, inhalative: 0.0009 mg/m<sup>3</sup>  
DNEL consumers, systemic, long-term, dermal: 0.025 mg/kg bw/d  
DNEL consumers, systemic, long-term, oral: 0.0005 mg/kg bw/d

Information about Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate:

DNEL consumers, systemic, long-term, dermal: 0.8 mg/kg bw/d  
DNEL consumers, systemic, long-term, oral: 0.4 mg/kg bw/d

Information about Tetraethyl silicate:

DNEL workers, systemic, long-term, inhalative: 85 mg/m<sup>3</sup>  
DNEL workers, systemic, short-term, inhalative: 85 mg/m<sup>3</sup>  
DNEL workers, local, long-term, inhalative: 85 mg/m<sup>3</sup>  
DNEL workers, local, short-term, inhalative: 85 mg/m<sup>3</sup>  
DNEL workers, systemic, long-term, dermal: 12.1 mg/kg bw/d  
DNEL workers, systemic, short-term, dermal: 12.1 mg/kg bw/d  
DNEL consumers, systemic, long-term, inhalative: 25 mg/m<sup>3</sup>  
DNEL consumers, systemic, short-term, inhalative: 25 mg/m<sup>3</sup>  
DNEL consumers, local, long-term, inhalative: 25 mg/m<sup>3</sup>  
DNEL consumers, local, short-term, inhalative: 25 mg/m<sup>3</sup>  
DNEL consumers, systemic, long-term, dermal: 8.4 mg/kg bw/d  
DNEL consumers, systemic, short-term, dermal: 8.4 mg/kg bw/d

### PNEC:

Information about Trimethoxyvinylsilane:

PNEC water (freshwater): 0.4 mg/L  
PNEC water (marine water): 0.04 mg/L  
PNEC sediment (freshwater): 1.5 mg/kg dw  
PNEC sediment (marine water): 0.15 mg/kg dw

Information about Dioctyltin oxide:

PNEC water (freshwater): 0.02798 mg/L  
PNEC water (marine water): 0.002798 mg/L  
PNEC sewage treatment plant: 100 mg/L

Information about Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate:

PNEC water (freshwater): 0.018 mg/L  
PNEC water (marine water): 0.0018 mg/L  
PNEC sediment (freshwater): 29 mg/kg dw  
PNEC sediment (marine water): 2.9 mg/kg dw  
PNEC soil: 5.9 mg/kg dw

Information about Tetraethyl silicate:

PNEC water (freshwater): 0.192 mg/L  
PNEC water (marine water): 0.0192 mg/L  
PNEC sediment (freshwater): 0.18 mg/kg dw  
PNEC sediment (marine water): 0.018 mg/kg dw  
PNEC soil: 0.05 mg/kg dw

## 8.2 Exposure controls

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

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### Personal protection equipment

#### Occupational exposure controls

- Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A (= against vapours of organic substances) according to BS EN 14387.
- Hand protection: Protective gloves according to BS EN 374.  
Glove material: Nitrile rubber, butyl caoutchouc (butyl rubber) and Neoprene.  
Breakthrough time: > 480min  
Layer thickness: >0.7mm  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Tightly sealed goggles according to BS EN ISO 16321-1:2022.
- Body protection: Wear suitable protective clothing.
- General protection and hygiene measures:  
Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.  
Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Wash hands thoroughly after handling.

#### Environmental exposure controls

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Physical state at 20 °C and 101.3 kPa: solid  
Form: pasty  
Colour: grey
- Odour: characteristic, weak
- Odour threshold: No data available
- pH: Not applicable
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: No data available
- Flash point/flash point range: > 61 °C
- Evaporation rate: No data available
- Flammability: No data available
- Explosion limits: No data available
- Vapour pressure: No data available
- Vapour density: No data available
- Density: 1.44 - 1.52 g/cm<sup>3</sup>
- Solubility: No data available
- Partition coefficient: n-octanol/water: 3.18 log P(o/w) (Tetraethyl silicate)  
Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.  
1.1 log P(o/w) (Trimethoxyvinylsilane)  
Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Viscosity, dynamic: 4500 - 7500 Pa\*s (Tetraethyl silicate)
- Explosive properties: No data available
- Oxidizing characteristics: No data available

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## 9.2 Other information

Additional information: No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Product cures in the presence of moisture by separating methanol.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling.

### 10.4 Conditions to avoid

Protect from moisture.  
Protect from heat and direct sunlight.

### 10.5 Incompatible materials

Water

### 10.6 Hazardous decomposition products

Methanol  
Thermal decomposition: No data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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): 868.30 mg/L

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

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

Contains Trimethoxyvinylsilane and Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine. May produce an allergic reaction.

Specific symptoms in animal studies, Guinea pig: not sensitising (OECD 406, read across)

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

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

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

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

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

Other information:

Information about Trimethoxyvinylsilane:

LD50, Rat, oral: 7,120 - 7,236 mg/kg (OECD 401)

LD50, Rabbit, dermal: 3,540 mg/kg

LC50, Rat, inhalative: 16.8 mg/L/4h (OECD 403)

Information about Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine:

LD50, Rat, oral: > 2,000 mg/kg

LC50, Rat, inhalative: > 5.05 mg/L/4h

Information about Dioctyltin oxide:

LD50 Rat, oral: 2,500 mg/kg

LD50 Rat, dermal: > 2,000 mg/kg (OECD 402)

Information about Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate:

LD50 Rat, oral: > 2,000 mg/kg (OECD 423)

LD50 Rat, dermal: > 3,170 mg/kg (OECD 402)

LC50 Rat, inhalative: 5 mg/L/4h

Information about Tetraethyl silicate:

LD50 Rat, oral: > 2,500 mg/kg

LD50 Oryctolagus cuniculus, dermal: 5,878 mg/kg

LC50 Rat, inhalative: > 16.8 mg/L/4h

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## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Information about Bis(2,2,6,6-Tetramethyl-4-piperidyl)sebacate:  
According to experience to date, toxicity to fish is not expected.  
LC50 *Oryzias latipes* (Ricefish): 5.29 mg/L/96h  
Daphnia toxicity:  
LC50 *Daphnia magna* (Big water flea): 8.58 mg/L/48h  
Algae toxicity:  
EC50 *Pseudokirchneriella subcapitata* (green algae): 0.705 mg/L/72h

### 12.2 Persistence and degradability

Further details: Information about Trimethoxyvinylsilane: BOD, 28 days: 51%. Not readily biodegradable (according to OECD criteria).

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
3.18 log P(o/w) (Tetraethyl silicate)  
Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.  
1.1 log P(o/w) (Trimethoxyvinylsilane)  
Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

### 12.6 Other adverse effects

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 08 04 10 = waste adhesives and sealants other than those mentioned in 08 04 09  
Recommendation: Adhesives, not cured: Incinerate as hazardous waste according to applicable local, state, and federal regulations.  
Incinerate according to applicable local, state and federal regulations.

#### Package

Waste key number: 15 01 02 = Plastic packaging  
Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID, IMDG, IATA-DGR: not applicable

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### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable

### 14.5 Environmental hazards

Marine pollutant: no

### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

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

No data available

## SECTION 15: Regulatory information

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

#### National regulations - Great Britain

Hazchem-Code: -  
No data available

#### National regulations - EC member states

Further regulations, limitations and legal requirements:  
Use restriction according to REACH annex XVII, no.: 20, 40, 69, 75

### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

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## SECTION 16: Other information

### Further information

Wording of the H-phrases under paragraph 2 and 3:

H225 = Highly flammable liquid and vapour.  
H226 = Flammable liquid and vapour.  
H301 = Toxic if swallowed.  
H311 = Toxic in contact with skin.  
H317 = May cause an allergic skin reaction.  
H318 = Causes serious eye damage.  
H319 = Causes serious eye irritation.  
H331 = Toxic if inhaled.  
H332 = Harmful if inhaled.  
H335 = May cause respiratory irritation.  
H361f = Suspected of damaging fertility.  
H370 = Causes damage to organs.  
H371 = May cause damage to organs.  
H400 = Very toxic to aquatic life.  
H411 = Toxic to aquatic life with long lasting effects.  
EUH208 = Contains Trimethoxyvinylsilane and Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine. May produce an allergic reaction.  
EUH210 = Safety data sheet available on request.

Abbreviations and acronyms:

Acute Tox.: Acute toxicity  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
Aquatic Acute: Hazardous to the aquatic environment - acute  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
BOD: Biochemical oxygen demand  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EC50: Effective Concentration 50%  
EN: European Standard  
EQ: Exempted quantities  
Eye Dam.: Eye damage  
Eye Irrit.: Eye irritation  
Flam. Liq.: Flammable liquid  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
log P(o/w): Partition coefficient: octanol/water  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
M-factor: Multiplication factor  
OECD: Organisation for Economic Co-operation and Development  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
Repr.: Reproductive toxicity  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Sens.: Skin sensitisation  
STOT SE: Specific target organ toxicity - single exposure  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

Reason of change: Changes in section 1: General use

Date of first version: 4/11/2009

### Department issuing data sheet

Contact person: see section 1: Department responsible for information

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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.