

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



wedi® 620

Material number 620

Revision date: 6/12/2020
Version: 3

Language: en-US

Date of print: 7/9/2020
Page: 1 of 10

1. Product and company identification

Product identifier

Trade name: wedi® 620

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

General use: Sealant based on silane modified polymers
Restricted to professional users.

Details of the supplier of the safety data sheet

Company name: wedi Corporation / wedi Americas
Street/POB-No.: 1160 Pierson Drive
Postal Code, city: IL 60510 Batavia
USA

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E-mail: info@wedicorp.com
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Department responsible for information:
wedi Corporation / wedi Americas
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Telephone: +1 877.933.WEDI (9334), Mobile: +1 770.366.6835
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E-mail info@wedicorp.com

Emergency phone number

Telephone: +1 877.933.WEDI (9334) Only available during office hours.
Mobile: +1 770.366.6835 For non business hours.

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid
Form: pasty
Color: dark gray
Odor: No data available
Classification: This material is classified as not hazardous.

Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified

During hydrolysis, a small amount of methanol is produced.
Methanol: Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled.
Special danger of slipping by leaking/spilling product.
see section 11: Toxicological information

SAFETY DATA SHEET

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wedi® 620

Material number 620

Revision date: 6/12/2020
Version: 3

Language: en-US

Date of print: 7/9/2020
Page: 2 of 10

3. Composition / Information on ingredients

Chemical characterization: Mixture of the substances listed below with non-hazardous additions:

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 2768-02-7	Trimethoxyvinylsilane	< 2.5 %	Flammable Liquid - Category 3. Acute Toxicity - inhalative - Category 4.
CAS 13822-56-5	3-(Trimethoxysilyl) propylamine	< 2.5 %	Skin Irritation - Category 2. Eye Damage - Category 1.

Additional information: During hydrolysis, a small amount of methanol is produced.
The maximum workplace exposure limits are, where necessary, listed in section 8.

4. First aid measures

General information: If medical advice is needed, have product container or label at hand.

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: Immediately clean with water and soap followed by thorough rinsing. Take off contaminated clothing and wash it before reuse. 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 troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Rinse mouth with water. Seek medical attention.
Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

No data available

Information to physician

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

5. Fire fighting measures

Flash point/flash point range:

Not applicable

Auto-ignition temperature: No data available

Suitable extinguishing media:

Dry chemical powder, alcohol resistant foam, water spray jet, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

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

SAFETY DATA SHEET

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wedi® 620

Material number 620

Revision date: 6/12/2020
Version: 3

Language: en-US

Date of print: 7/9/2020
Page: 3 of 10

Protective equipment and precautions for firefighters:

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

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

6. Accidental release measures

Personal precautions: Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

Environmental precautions:

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

Methods for clean-up: Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions.

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 breathing dust/fume/gas/mist/vapors/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. Have eye wash bottle or eye rinse ready at work place.

Storage

Requirements for storerooms and containers:

Protect from moisture contamination.

Recommended storage temperature: 41 - 95 °F

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

SAFETY DATA SHEET

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wedi® 620

Material number 620

Revision date: 6/12/2020
Version: 3

Language: en-US

Date of print: 7/9/2020
Page: 4 of 10

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
78-10-4	Tetraethyl silicate	USA: ACGIH: TWA	85 mg/m ³ ; 10 ppm
		USA: NIOSH: TWA	85 mg/m ³ ; 10 ppm
		USA: OSHA: TWA	850 mg/m ³ ; 100 ppm
67-56-1	Methanol	USA: ACGIH: STEL	328 mg/m ³ ; 250 ppm (may be absorbed through the skin)
		USA: ACGIH: TWA	262 mg/m ³ ; 200 ppm (may be absorbed through the skin)
		USA: NIOSH: STEL	325 mg/m ³ ; 250 ppm (may be absorbed through the skin)
		USA: NIOSH: TWA	260 mg/m ³ ; 200 ppm (may be absorbed through the skin)
		USA: OSHA: TWA	260 mg/m ³ ; 200 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
67-56-1	Methanol	USA: ACGIH-BEI, urine	15 mg/L	Methanol	end of exposure or end of shift

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.
Glove material: Neoprene, nitrile rubber, butyl caoutchouc (butyl rubber).
Layer thickness: > 0.7 mm
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Use respiratory protection whenever ventilation is inadequate.
Wear half-mask respirator with combination filter for organic vapors and particles.

General hygiene considerations:
Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work. Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

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

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



wedi® 620

Material number 620

Revision date: 6/12/2020

Version: 3

Language: en-US

Date of print: 7/9/2020

Page: 5 of 10

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Form: pasty Color: dark gray
Odor:	No data available
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	1.41 - 1.49 g/mL
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, dynamic:	at 73.4 °F: 1300 - 1800 mPa*s (Spindle Z4U @ 1 rpm)

10. Stability and reactivity

Reactivity:	Product cures in the presence of moisture by separating methanol.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No dangerous reactions with proper and specified storage and handling.
Conditions to avoid:	Protect from moisture contamination.
Incompatible materials:	Water
Hazardous decomposition products:	No decomposition when used properly.
Thermal decomposition:	No data available

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



wedi® 620

Material number 620

Revision date: 6/12/2020

Version: 3

Language: en-US

Date of print: 7/9/2020

Page: 6 of 10

11. Toxicological information

Toxicological tests

Toxicological effects: Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): 4059,7 mg/kg
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix calculated (vapors): 716.97 mg/L
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Information about Trimethoxyvinylsilane:
Specific symptoms in animal studies, Rabbit: 0.5 mL/24h, Not an irritant
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Specific symptoms in animal studies, in-vitro: <=3
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Based on available data, the classification criteria are not met.
Information about Trimethoxyvinylsilane:
Specific symptoms in animal studies, guinea pig: not sensitising (OECD 406)
Information about 3-(Trimethoxysilyl)propylamine:
Specific symptoms in animal studies, guinea pig: not sensitising (OECD 406)
Germ cell mutagenicity/Genotoxicity: Lack of data.
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: 7120 - 7236 mg/kg (OECD 401)
LD50 Rabbit, dermal: 3360 µL/kg
LC50 Rat, inhalative: 16.8 mg/L/4h (OECD TG 403)
Information about 3-(Trimethoxysilyl)propylamine:
LD50 Rat, oral: > 2000 mg/kg (OECD 401)
LD50 Rabbit, dermal: > 2000 mg/kg (OECD 402)

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



wedi® 620

Material number 620

Revision date: 6/12/2020
Version: 3

Language: en-US

Date of print: 7/9/2020
Page: 7 of 10

12. Ecological information

Ecotoxicity

Aquatic toxicity: Information about Trimethoxyvinylsilane:
Algae toxicity: EC50 Desmodesmus subspicatus (green algae): > 957 mg/L/72h
Fish toxicity: LC50 Oncorhynchus mykiss: 191 mg/L/96h
Daphnia toxicity: EC50 Daphnia magna (Big water flea): 168.7 mg/L/48h
Information about 3-(Trimethoxysilyl)propylamine:
Algae toxicity: EC50 Desmodesmus subspicatus (green algae): > 1000 mg/L/72h
Fish toxicity: LC50 Danio rerio (zebrafish): > 934 mg/L/96h (OECD 203)
Daphnia toxicity: EC50 Daphnia magna (Big water flea): 331 mg/L/48h (OECD 202)

Mobility in soil

No data available

Persistence and degradability

Further details: Biodegradability:
Information about Trimethoxyvinylsilane:
51 %/28 d (OECD 301F), not easily bio-degradable
Information about 3-(Trimethoxysilyl)propylamine:
67 %/28 d (OECD 301A), not easily bio-degradable

Additional ecological information

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

13. Disposal considerations

Product

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.

Contaminated 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.

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

SAFETY DATA SHEET

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Revision date: 6/12/2020
Version: 3

Language: en-US

Date of print: 7/9/2020
Page: 8 of 10

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - U.S. Federal Regulations

Trimethoxyvinylsilane:	TSCA Inventory: listed TSCA HPVC: not listed
3-(Trimethoxysilyl)propylamine:	TSCA Inventory: listed TSCA HPVC: not listed
Tetraethyl silicate:	TSCA Inventory: listed TSCA HPVC: not listed NIOSH Recommendations: Occupational Health Guideline: 0282
Methanol:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: Hazardous Air Pollutants: yes SOCMI Chemical: yes Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Hazardous Wastes: Code U154 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0397

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010



wedi® 620

Material number 620

Revision date: 6/12/2020
Version: 3

Language: en-US

Date of print: 7/9/2020
Page: 9 of 10

National regulations - U.S. State Regulations

Tetraethyl silicate: Idaho Air Pollutant List: " # "
Title 585: AAC: 4,25 - EL: 5.67 - OEL: 85 - Title 586: - " # "Massachusetts Haz. Substance codes: 2,4,6" # "Minnesota Haz. Substance:" # " Codes: AO - Ratings: -" # "Pennsylvania Haz. Substance code: -" # "Washington Air Contaminant:" # "
TWA: 10 ppm - 85 mg ("Chemical List, IH 30.5.2007")

Methanol: Delaware Air Quality Management List:
DRQ: 5000 - RQ State: Federal Regulations Apply
Idaho Air Pollutant List:
Title 585: AAC: 13 - EL: 17,3 - OEL: 260 - Title 586: -
Main Hazardous Air Pollutants:
Me 2005: HAP - Hap Rpt: 2000
Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9
Minnesota Haz. Substance:
Codes: ANO - Ratings: 7,5 - Status: Air Pollutant Title III. TRI.
New Jersey RTK Hazardous Substance:
DOT: 1230 - Sub No.: 1222 - TPQ: -
New York List of Hazardous Substances:
RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical.
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
TWA: 200 ppm - 260 mg - STEL: 250 ppm - 325 mg
Skin: Protective measures should be taken to prevent or reduce skin absorption.
California Proposition 65: developmental

National regulations - Great Britain

Hazchem-Code: -

16. Other information

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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Revision date: 6/12/2020
Version: 3

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Date of print: 7/9/2020
Page: 10 of 10

Abbreviations and acronyms:

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
AS/NZS: Australian Standards/New Zealand Standards
ATEmix: Acute Toxicity Estimate of mixture
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC50: Effective Concentration 50%
EC: European Community
EN: European Standard
IATA: International Air Transport Association
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%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 3: Composition / information on ingredients
Changes in section 7: Storage class
Changes in section 8: DNEL
Changes in section 9: Physical and chemical properties
Changes in section 11: Toxicological information

Date of first version: 4/15/2019

Department issuing data sheet

Contact person: see section 1: Department 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.