SAFETY DATA SHEET



Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

SEAL & BOND MS60

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

1.1. Product identifier

Product name : SEAL & BOND MS60
Registration number REACH : Not applicable (mixture)

Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Sealing compound

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*

Industrielaan 5B

B-2250 Olen

2 +32 14 25 76 40

₼ +32 14 22 02 66

info@novatio.be

*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.

Industrielaan 5B

B-2250 Olen

2 +32 14 85 97 37

4 +32 14 85 97 38

info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.2. Label elements

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Supplemental information

EUH208 Contains: trimethoxyvinylsilane; N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

2.3. Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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http://www.big.be

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Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16

Revision number: 0600 (supersedes revision 0500 of 2022-03-28)

Publication date: 2012-02-20 Date of revision: 2025-10-01 Reference number: EX 51709

BIG number: 71075

878-16239-073

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
trimethoxyvinylsilane	2768-02-7 220-449-8		Flam. Liq. 3; H226 Skin Sens. 1B; H317	(1)(6)(10)	Constituent	
N-(3-(trimethoxysilyl)propyl) ethylenediamine 01-2119970215-39	1760-24-3 217-164-6		Skin Sens. 1B; H317 Eye Dam. 1; H318 STOT SE 3; H335	(1)(10)	Constituent	

⁽¹⁾ For H- and EUH-statements in full: see section 16

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

No effects known.

After eye contact: No effects known.

After to see the see

After ingestion: No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

5.3.1 Instructions:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16 Publication date: 2012-02-20 Date of revision: 2025-10-01

Date of revision: 2025-10-01 Reference number: EX 51709

Revision number: 0600 BIG number: 71075 2 / 13

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Contain released product.

6.3. Methods and material for containment and cleaning up

Solid spill: cover with absorbent material. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Meet the legal requirements.

7.2.2 Keep away from:

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL - Workers

trimethoxyvinylsilane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	27.6 mg/m³	
	Acute systemic effects inhalation	73.6 mg/m³	
	Long-term systemic effects dermal	0.91 mg/kg bw/day	

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	130 mg/m³	

DNEL/DMEL - General population

trimethoxyvinylsilane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	6.8 mg/m³	
	Acute systemic effects inhalation	54.4 mg/m³	
	Long-term systemic effects dermal	0.63 mg/kg bw/day	
	Long-term systemic effects oral	0.63 mg/kg bw/day	

Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16 Publication date: 2012-02-20 Date of revision: 2025-10-01

Reference number: EX 51709

Revision number: 0600 BIG number: 71075 3 / 13

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	26 mg/m³	
	Acute systemic effects inhalation	26400 mg/m³	
	Long-term systemic effects oral	4 mg/kg bw/day	

PNEC

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Compartments	Value	Remark
Fresh water	0.05 mg/l	
Marine water	0.005 mg/l	
Fresh water (intermittent releases)	0.072 mg/l	
STP	20 mg/l	
Fresh water sediment	0.181 mg/kg sediment dw	
Marine water sediment	0.018 mg/kg sediment dw	
Soil	0.007 mg/kg soil dw	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe strict hygiene. Do not eat, drink or smoke during work.

a) Respiratory protection:

 $In sufficient\ ventilation:\ we ar\ respiratory\ protection.$

b) Hand protection:

Protective gloves against chemicals (EN 374).

c) Eye protection:

Safety glasses (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Paste
Colour	No data available on colour
Odour	No data available on odour
Odour threshold	No data available (test not performed)
Melting point	No data available (test not performed)
Boiling point	No data available (test not performed)
Flammability	Not classified as flammable
Explosion limits	No data available (test not performed)
Flash point	No data available (test not performed)
Auto-ignition temperature	No data available (test not performed)
Decomposition temperature	No data available (test not performed)
рН	No data available (test not performed)
Kinematic viscosity	No data available (test not performed)
Dynamic viscosity	No data available (test not performed)
Solubility	No data available (test not performed)
Log Kow	Not applicable (mixture)
Vapour pressure	No data available (test not performed)
Absolute density	No data available (test not performed)
Relative density	No data available (test not performed)
Relative vapour density	Not applicable
Particle size	Not applicable

9.2. Other information

Revision number: 0600

No data available

Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16

Publication date: 2012-02-20
Date of revision: 2025-10-01
Reference number: EX 51709

BIG number: 71075

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Test results

Acute toxicity

SEAL & BOND MS60

No (test)data on the mixture available

Judgement is based on the relevant ingredients

trimethoxyvinylsilane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD	6899 mg/kg bw -		Rat (male /	Experimental value	
		401	7012 mg/kg bw		female)		
Dermal	LD50	Equivalent to OECD	3158 mg/kg bw -	24 h	Rabbit (male /	Experimental value	
		402	3760 mg/kg bw		female)		
Inhalation (vapours)	LC50	Equivalent to OECD	16.8 mg/l	4 h	Rat (male /	Experimental value	
		403	_		female)		

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	EPA OPPTS	2295 mg/kg bw		Rat (male /	Experimental value	
		870.1100			female)		
Dermal	LD50	EPA OPPTS	> 2000 mg/kg bw	24 h	Rabbit (male /	Experimental value	
		870.1200			female)		
Inhalation (aerosol)	LC50	EPA OPPTS	1.49 mg/l air -	4 h	Rat (male /	Experimental value	
		870.1300	2.44 mg/l air		female)		
Inhalation						Expert judgement	Not classified

Classification of this substance is debatable as it does not correspond to the conclusion from the test

Conclusion

Not classified for acute toxicity

Corrosion/irritation

SEAL & BOND MS60

No (test)data on the mixture available

Judgement is based on the relevant ingredients

trimethoxyvinylsilane

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Еуе	Not irritating	OECD 405	24 h	1; 24; 48; 72 hours		•	Single treatment with rinsing
Skin	Not irritating		24 h	24; 48; 72 hours		Experimental value	

Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16

Publication date: 2012-02-20

Date of revision: 2025-10-01 Reference number: EX 51709

Revision number: 0600 BIG number: 71075

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Route of exposure	Result	Method	Exposure time	Time point	 Value determination	Remark
Eye	Serious eye damage	OECD 405		24; 48; 72 hours	•	Single treatment without rinsing
Skin	1 0 1 7 11 0	EPA OPPTS 870.2500	4 h	24; 48; 72 hours	 Experimental value	
Inhalation	Irritating; STOT SE cat.3				Literature study	

Conclusion

Not classified as irritating to the respiratory system

Not classified as irritating to the skin

Not classified as irritating to the eyes

Respiratory or skin sensitisation

SEAL & BOND MS60

No (test)data on the mixture available

Judgement is based on the relevant ingredients <u>trimethoxyvinylsilane</u>

Route of exposure	Result	Method	•	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 406			Guinea pig (female)	Experimental value	

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 406		Guinea pig (male / female)	Experimental value	

Conclusion

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

Specific target organ toxicity

SEAL & BOND MS60

No (test)data on the mixture available

Judgement is based on the relevant ingredients

trimethoxyvinylsilane

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (stomach tube)	NOAEL	OECD 422	62.5 mg/kg bw/day	No effect	7 weeks (daily)	Rat (male / female)	Experimental value	
Oral (stomach tube)	LOAEL	OECD 422	250 mg/kg bw/day	Bladder (histopatholo gical changes)	7 weeks (daily)	Rat (male / female)	Experimental value	
Inhalation (vapours)	NOAEC	Subchronic toxicity test	100 ppm	No effect	14 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	
Inhalation (vapours)		Subchronic toxicity test	400 ppm	Bladder (histopatholo gical changes)	14 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time		Value determination	Remark
Oral (stomach tube)	NOAEL	Equivalent to OECD 422	> 500 mg/kg bw/day	No effect	28 day(s) - 44 day (s)	Rat (male / female)	Experimental value	
Dermal	NOAEL	Subacute toxicity test	≥ 1545 mg/kg bw/day	No adverse systemic effects	/ (- /	Rat (male / female)	Experimental value	
Inhalation (aerosol)	NOAEC	OECD 413	15 mg/l	Respiratory tract (no effect)	, ,	Rat (male / female)	Experimental value	

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

SEAL & BOND MS60

No (test)data on the mixture available Judgement is based on the relevant ingredients

Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16 Publication date: 2012-02-20

Date of revision: 2025-10-01 Reference number: EX 51709

Revision number: 0600 BIG number: 71075 6/13

trimethoxyvinylsilane

Result	Method	Test substrate	Effect	Value determination	Remark
Negative without metabolic activation, positive with metabolic activation	OECD 473	CHL/IU cells	Chromosome aberrations	Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S. typhimurium and E. coli)	No effect	Experimental value	

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	Equivalent to OECD 471	Bacteria (S. typhimurium	No effect	Experimental value	
activation, negative		and E. coli)			
without metabolic					
activation					
Negative with metabolic	Equivalent to OECD 476	Chinese hamster ovary	No effect	Experimental value	
activation, negative		(CHO)			
without metabolic					
activation					

Mutagenicity (in vivo)

SEAL & BOND MS60

No (test)data on the mixture available

Judgement is based on the relevant ingredients

 $\underline{trimethoxyvinyl silane}$

ı	Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark		
Ī	Negative (Inhalation	OECD 489	2 days (1x / day)	Rat (male)	No effect	Experimental value			
-	(vapours))								
Ī	N-(3-(trimethoxysilyl)propyl)ethylenediamine								
- 1									

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Intraperitoneal)	Equivalent to OECD 474		Mouse (male /	No effect	Experimental value	Single
			female)			intraperitoneal
						injection

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

SEAL & BOND MS60

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

SEAL & BOND MS60

No (test)data on the mixture available

Judgement is based on the relevant ingredients

trimethoxyvinylsilane

Category	Parameter	Method	Value	Exposure time	Species		Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	≥ 75 mg/kg bw/day	22 days (gestation, daily)	Rabbit	Foetus (no effect)	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	7.5 mg/kg bw/day	22 days (gestation, daily)	Rabbit	No effect	Experimental value	
Effects on fertility (Oral (stomach tube))	NOAEL (P)	OECD 443	≥ 300 mg/kg bw/day		Rat (male / female)	No effect	Experimental value	
Effects on fertility (Oral (stomach tube))	NOAEL (P)	OECD 422	250 mg/kg bw/day	≥ 60 day(s)	Rat (female)	No effect	Experimental value	

Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16

Publication date: 2012-02-20

Date of revision: 2025-10-01

Date of revision: 2025-10-01 Reference number: EX 51709

Revision number: 0600 BIG number: 71075

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Category	Parameter	Method	Value	Exposure time	Species		Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	750 mg/kg bw/day	14 day(s)	Rat	No effect	Experimental value	
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	750 mg/kg bw/day	14 day(s)	Rat	No effect	Experimental value	
Effects on fertility (Oral (stomach tube))	NOAEL	Equivalent to OECD 422	≥ 500 mg/kg bw/day	28 day(s) - 44 day (s)	Rat (male / female)	No effect	Experimental value	

Conclusion

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

SEAL & BOND MS60

Judgement is based on the relevant ingredients Not classified for aspiration toxicity

Toxicity other effects

SEAL & BOND MS60

No (test)data on the mixture available

Chronic effects from short and long-term exposure

SEAL & BOND MS60

Skin rash/inflammation.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

SEAL & BOND MS60

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

trimethoxyvinylsilane

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		191 mg/l	96 h	Oncorhynchus mykiss		Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	EU Method C.2	169 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50		> 89 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; GLP
	NOEC		> 89 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic crustacea	NOEC	OECD 211	28 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro- organisms -(3-(trimethoxysilyl)propyl)ethy	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; Respiration

N

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EU Method C.1	597 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EC50	EU Method C.2	81 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	8.8 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; GLP
	NOEC	OECD 201	3.1 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; GLP
Long-term toxicity aquatic crustacea	NOEC		> 1 ppm	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro- organisms	EC50	DIN 38412-8	67 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value; GLP

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16 Publication date: 2012-02-20 Date of revision: 2025-10-01

Reference number: EX 51709

Revision number: 0600 BIG number: 71075 8 / 13

12.2. Persistence and degradability

 $\underline{\mathsf{trimethoxyvinylsilane}}$

Biodegradation water

Method	Value	Duration	Value determination						
OECD 301F	51 %; Oxygen consumption	28 day(s)	Experimental value						
hototransformation air (DTSO air)									

 Phototransformation air (DT50 air)

 Method
 Value
 Conc. OH-radicals
 Value determination

 AOPWIN v1.92
 4.5 h
 1.5E6 /cm³
 Calculated value

Half-life water (t1/2 water)

Method		Primary degradation/mineralisation	Value determination
OECD 111	< 2.4 h; pH = 7	Primary degradation	Weight of evidence

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Biodegradation water

Method	Value	Duration	Value determination
EU Method C.4	39 %; Activated sludge	28 day(s)	Experimental value

Half-life water (t1/2 water)

Method			Primary degradation/mineralisation	Value determination
OECD 111	•	0.025 h; pH = 7	Primary degradation	Experimental value

Conclusion

Water

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

SEAL & BOND MS60

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

trimethoxyvinylsilane

Log Kow

Method	Remark	Value	Temperature	Value determination
KOWWIN			20 °C	QSAR

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Log Kow

Method	Remark	Value	Temperature	Value determination
		-0.3	20 °C	QSAR

$\underline{\textbf{Conclusion}}$

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

 $\underline{\mathsf{trimethoxyvinylsilane}}$

(log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	2.8	Calculated value

N-(3-(trimethoxysilyl)propyl)ethylenediamine

(log) Koc

•	C,			
	Parameter	Method	Value	Value determination
	log Koc	SRC PCKOCWIN v2 0	3.5	Calculated value

Percent distribution

Method	Fraction air	 Fraction sediment	Fraction soil	Fraction water	Value determination
Fugacity Model Level III	8.1E-5 %	1.5 %	83 %	16 %	Calculated value

Conclusion

Contains component(s) with potential for mobility in the soil Contains component(s) that adsorb(s) into the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

SEAL & BOND MS60

Greenhouse gases

Revision number: 0600

Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16

Publication date: 2012-02-20

Date of revision: 2025-10-01

Reference number: EX 51709 BIG number: 71075

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

trimethoxyvinylsilane

Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

Water ecotoxicity pH

pH shift

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 10 (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants other than those mentioned in 08 04 09). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

No data available

SECTION 14: Transport information

Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14. <u>1. UN number or ID number</u>		
Transport	Not subject	
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
Hazard identification number		
Class		
Classification code		
14.4. Packing group		
Packing group		
Labels		
14.5. Environmental hazards		
Environmentally hazardous substance mark	no	
14.6. Special precautions for user		
Special provisions		
Limited quantities		
14.7. Maritime transport in bulk according to IMO instruments	S	<u> </u>
Annex II of MARPOL 73/78	Not applicable, based on available data	

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture <u>European legislation:</u>

VOC content Directive 2010/75/EU

VOC content	Remark
< 2 %	

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

REACH Candidate list

Does not contain component(s) included in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No 1907/2006)

Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16 Publication date: 2012-02-20 Date of revision: 2025-10-01

Date of revision: 2025-10-01 Reference number: EX 51709

Revision number: 0600 BIG number: 71075 10 / 13

REACH Annex XIV - Authorisation

Does not contain component(s) included in Annex XIV of Regulation (EC) No 1907/2006: list of substances subject to authorisation

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

_	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
trimethoxyvinylsilane N-(3-(trimethoxysilyl)propyl) ethylenediamine	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shal ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibl and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
trimethoxyvinylsilane	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopee" cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only". 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC. 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
trimethoxyvinylsilane	Substances falling within one or more of the following points: (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008: — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation — skin sensitiser category 1, 1A or 1B — skin corrosive category 1, 1A or 1B — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2 — serious eye damage category 1 or eye irritant category 2 (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h	Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/208

Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16

Publication date: 2012-02-20

Date of revision: 2025-10-01

Reference number: EX 51709

Revision number: 0600 BIG number: 71075 11 / 13

The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.

National legislation Belgium SEAL & BOND MS60

No data available

National legislation The Netherlands

SEAL & BOND MS60

B (4); Algemene Beoordelingsmethodiek (ABM) Waterbezwaarlijkheid

National legislation France

SEAL & BOND MS60

No data available

National legislation Germany

SEAL & BOND MS60

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	WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
trimethoxyvinylsilane		
	TA-Luft	5.2.5
N-(3-(trimethoxysilyl)propyl)ethylenediamine		
	TA-Luft	5.2.5

National legislation Austria

SEAL & BOND MS60

No data available

National legislation United Kingdom

No data available

National legislation Ireland

SEAL & BOND MS60

No data available

Other relevant data

SEAL & BOND MS60

No data available

15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

EUH210 Safety data sheet available on request.

EUH208 Contains a sensitising substance. May produce an allergic reaction.

(*) INTERNAL CLASSIFICATION BY BIG

ADI Acceptable daily intake

AOEL Acceptable operator exposure level

ATE **Acute Toxicity Estimate** BCF **Bioconcentration Factor** BEI **Biological Exposure Indices**

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

DMEL Derived Minimal Effect Level DNEL Derived No Effect Level EC10 Effect Concentration 10 % FC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

GLP **Good Laboratory Practice** Lethal Concentration 0 % LC0 LC50 Lethal Concentration 50 % LD50

Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level LOAEC/LOAEL

NOAEC/NOAEL No Observed Adverse Effect Concentration/No Observed Adverse Effect Level

NOEC/NOEL No Observed Effect Concentration/No Observed Effect Level OECD Organisation for Economic Co-operation and Development

Reason for revision: 1; 2; 3; 5; 6; 7; 8; 9; 10; 11; 12; 13; 15; 16 Publication date: 2012-02-20

Date of revision: 2025-10-01 Reference number: EX 51709

Revision number: 0600 BIG number: 71075 12 / 13

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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Publication date: 2012-02-20

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