

## Fix All Turbo

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

#### 1.1. Product identifier

Product name : Fix All Turbo  
 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

SOULDAL N.V.  
 Everdongenlaan 18-20  
 B-2300 Turnhout  
 ☎ +32 14 42 42 31  
 ☐ +32 14 42 65 14  
 msds@soudal.com

##### Manufacturer of the product

SOULDAL N.V.  
 Everdongenlaan 18-20  
 B-2300 Turnhout  
 ☎ +32 14 42 42 31  
 ☐ +32 14 42 65 14  
 msds@soudal.com

#### 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

#### 2.3. Other hazards

No other hazards known

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
trimethoxyvinylsilane 01-2119513215-52	2768-02-7 220-449-8	1%<C<3%	Flam. Liq. 3; H226 Acute Tox. 4; H332	(1)(10)	Constituent
3-(trimethoxysilyl)propylamine 01-2119510159-45	13822-56-5 237-511-5	1%<C<3%	Skin Irrit. 2; H315 Eye Dam. 1; H318	(1)(10)	Constituent

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hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics,  
<0.03% aromatics  
01-2119552497-29

1%<C<10%

Asp. Tox. 1; H304

(1)(10)

UVCB

(1) For H-statements in full: see heading 16

(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:

If you feel unwell, seek medical advice.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse with water. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Consult a doctor/medical service if you feel unwell.

### 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 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:

Adapt extinguishing media to the environment.

#### 5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

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

Upon combustion: formation of CO, CO<sub>2</sub> and small quantities of nitrous vapours, hydrogen chloride and formation of metallic fumes.

### 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. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

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

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

##### Suitable protective clothing

See heading 8.2

### 6.2. Environmental precautions

Contain released product. Use appropriate containment to avoid environmental contamination.

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## 6.3. Methods and material for containment and cleaning up

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 heading 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

Observe normal hygiene standards.

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

#### 7.2.1 Safe storage requirements:

Store at room temperature. Keep only in the original container. Meet the legal requirements. Max. storage time: 1 year(s).

#### 7.2.2 Keep away from:

No data available.

#### 7.2.3 Suitable packaging material:

Synthetic material, polyethylene.

#### 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 DNEL/PNEC values

##### DNEL/DMEL - Workers

###### trimethoxyvinylsilane

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	4.9 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.69 mg/kg bw/day	

###### 3-(trimethoxysilyl)propylamine

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	58 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	8.3 mg/kg bw/day	

###### hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Effect level (DNEL/DMEL)	Type	Value	Remark
		No data available	

##### DNEL/DMEL - General population

###### trimethoxyvinylsilane

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	1.04 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	93.4 mg/m <sup>3</sup> day	
	Acute systemic effects dermal	0.3 mg/kg bw/day	
	Acute systemic effects dermal	26.9 mg/kg bw/day	
	Long-term systemic effects oral	0.3 mg/kg bw/day	

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## 3-(trimethoxysilyl)propylamine

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	17 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	5 mg/kg bw/day	
	Long-term systemic effects oral	5 mg/kg bw/day	

## hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Effect level (DNEL/DMEL)	Type	Value	Remark
		No data available	

## PNEC

### trimethoxyvinylsilane

Compartments	Value	Remark
Fresh water	0.34 mg/l	
Marine water	0.034 mg/l	
Aqua (intermittent releases)	3.4 mg/l	
STP	110 mg/l	
Fresh water sediment	1.24 mg/kg sediment dw	
Marine water sediment	0.12 mg/kg sediment dw	
Soil	0.052 mg/kg soil dw	

## 3-(trimethoxysilyl)propylamine

Compartments	Value	Remark
Fresh water	0.33 mg/l	
Marine water	0.033 mg/l	
Aqua (intermittent releases)	3.3 mg/l	
STP	13 mg/l	
Fresh water sediment	1.2 mg/kg sediment dw	
Marine water sediment	0.12 mg/kg sediment dw	
Soil	0.045 mg/kg soil dw	
Oral	44.4 mg/kg food	

## hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Compartments	Value	Remark
	No data available	

### 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

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 normal hygiene standards. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Respiratory protection not required in normal conditions.

#### b) Hand protection:

Gloves.

#### c) Eye protection:

Safety glasses.

#### d) Skin protection:

Protective clothing.

### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical form	Paste
Odour	Characteristic odour
Odour threshold	No data available
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	Not applicable
Flammability	Non combustible

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Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	Not applicable
Vapour pressure	No data available
Solubility	No data available
Relative density	1.504 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	Not applicable
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

## 9.2. Other information

Absolute density	1504 kg/m <sup>3</sup> ; 20 °C
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

Upon combustion: formation of CO, CO<sub>2</sub> and small quantities of nitrous vapours, hydrogen chloride and formation of metallic fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

#### Acute toxicity

##### Fix All Turbo

No (test)data on the mixture available

##### trimethoxyvinylsilane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	7120 mg/kg		Rat (male)	Experimental value	
Oral	LD50	Equivalent to OECD 401	7236 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	3.36 ml/kg bw	24 h	Rabbit (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	4 mg/kg bw	24 week(s)	Rat (male/female)	QSAR	
Inhalation (vapours)	LC50	Equivalent to OECD 403	16.8 mg/l	4 h	Rat (male/female)	Experimental value	

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## 3-(trimethoxysilyl)propylamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	2.970 ml/kg bw		Rat (male)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	11.3 ml/kg bw	24 h	Rabbit (male)	Experimental value	
Inhalation (vapours)	LC50	OECD 403	> 5 ppm	6 h	Rat (male)	Read-across	
Inhalation (vapours)	LC50	OECD 403	> 16 ppm	6 h	Rat (female)	Read-across	

## hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	> 5000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	OECD 402	> 3160 mg/kg bw	24 h	Rabbit (male/female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	> 5266 mg/m <sup>3</sup> air	4 h	Rat (male/female)	Experimental value	

Judgement is based on the relevant ingredients

### Conclusion

Not classified for acute toxicity

### Corrosion/irritation

#### Fix All Turbo

No (test) data on the mixture available

#### trimethoxyvinylsilane

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405	24 h	1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating		24 h	24; 48; 72 hours	Rabbit	Experimental value	

## 3-(trimethoxysilyl)propylamine

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Read-across	
Skin	Irritating	OECD 404	3 minutes - 240 minutes	1; 24; 48; 72; 168 hours	Rat	Calculated value	

## hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405	24 h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	Other	24 h	24; 48; 72 hours	Human	Experimental value	

In the light of practical experience, the classification for this mixture is less stringent than the one based on the calculation set out

### Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

### Respiratory or skin sensitisation

#### Fix All Turbo

No (test) data on the mixture available

#### trimethoxyvinylsilane

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (male/female)	Experimental value	

## 3-(trimethoxysilyl)propylamine

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406	72 h	24; 48 hours	Guinea pig (male/female)	Experimental value	

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hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406	24 h	24; 48 hours	Guinea pig (female)	Read-across	
Skin	Not sensitizing	Other	216 h	24; 48 hours	Human (male/female)	Experimental value	

Judgement is based on the relevant ingredients

## Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

## Specific target organ toxicity

### Fix All Turbo

No (test) data on the mixture available

trimethoxyvinylsilane

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	LOAEL	OECD 422	62.5 mg/kg bw/day	Thymus	Weight reduction	6 weeks (daily) - 8 weeks (daily)	Rat (female)	Experimental value
Inhalation (vapours)	LOAEC	Subchronic toxicity test	100 ppm		Change in urine composition	14 weeks (6h/day, 5 days/week)	Rat (male)	Experimental value
Inhalation (vapours)	NOAEC	Subchronic toxicity test	10 ppm		No effect	14 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value

3-(trimethoxysilyl)propylamine

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	LOAEL	OECD 408	600 mg/kg bw/day	Liver	Clinical signs; mortality; body weight; food consumption	92 day(s)	Rat (male/female)	Read-across
Oral (stomach tube)	NOAEL	OECD 408	200 mg/kg bw/day	Liver	No effect	92 day(s)	Rat (male/female)	Read-across
Inhalation (aerosol)	IRT (inhalation risk test)	Equivalent to OECD 412	147 mg/m <sup>3</sup> air	Lungs	Lesions in larynx, trachea and lung	4 weeks (6h/day, 5 days/week)	Rat (male)	Read-across

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	Equivalent to OECD 408	≥ 5000 mg/kg bw/day		No effect	13 weeks (daily)	Rat (male/female)	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	> 10400 mg/m <sup>3</sup> air		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Read-across

Judgement is based on the relevant ingredients

## Conclusion

Not classified for subchronic toxicity

## Mutagenicity (in vitro)

### Fix All Turbo

No (test) data on the mixture available

trimethoxyvinylsilane

Result	Method	Test substrate	Effect	Value determination
Positive with metabolic activation, positive without 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)	No effect	Experimental value

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## 3-(trimethoxysilyl)propylamine

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Read-across
Negative with metabolic activation, negative without metabolic activation	OECD 473	Chinese hamster lung fibroblasts	No effect	Read-across
Negative with metabolic activation, negative without metabolic activation	OECD 471	Escherichia coli	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

## hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value

## Mutagenicity (in vivo)

### Fix All Turbo

No (test)data on the mixture available

### trimethoxyvinylsilane

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	EPA 560/6-83-001		Mouse (male/female)	Blood	Experimental value

## 3-(trimethoxysilyl)propylamine

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male/female)	Bone marrow	Read-across

## hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 483	8 weeks (6h/day, 5 days/week)	Mouse (male)		Read-across
Negative	Equivalent to OECD 475		Rat (male/female)		Read-across
Negative	Equivalent to OECD 474		Mouse (male/female)		Read-across

## Carcinogenicity

### Fix All Turbo

No (test)data on the mixture available

### 3-(trimethoxysilyl)propylamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Dermal	NOAEL	Carcinogenic toxicity study	43.8 mg/week	104 weeks (3 times/week)	Mouse (male/female)	No carcinogenic effect	Skin	Inconclusive, insufficient data

## Reproductive toxicity

### Fix All Turbo

No (test)data on the mixture available

### trimethoxyvinylsilane

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	EPA OTS 798.4350	100 ppm	10 days (6h/day)	Rat (female)	No effect		Experimental value
Maternal toxicity	NOAEL	EPA OTS 798.4350	25 ppm	10 days (6h/day)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEL (P)	OECD 422	1000 mg/kg bw/day	8 week(s)	Rat (male)	No effect		Experimental value
	NOAEL (P)	OECD 422	250	6 week(s)	Rat (female)	No effect		Experimental value

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## 3-(trimethoxysilyl)propylamine

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	EPA OTS 798.4900	100 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect		Read-across
	LOAEL	EPA OTS 798.4900	600 mg/kg bw/day	14 days (gestation, daily)	Rat	Minor skeletal variations	Skeleton	Read-across
Maternal toxicity	NOAEL	Other	100 mg/kg bw/day	14 day(s)	Rat	No effect		Read-across
	LOAEL	Other	600 mg/kg bw/day	14 day(s)	Rat	Clinical signs; mortality; body weight; food consumption	General	Read-across
Effects on fertility	NOAEL	OECD 408	600 mg/kg bw/day	92 day(s)	Rat (male/female)	No effect		Read-across

## hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	> 1000 mg/kg bw/day	10 day(s)	Rat	No effect		Experimental value
Effects on fertility	NOAEC	Equivalent to OECD 416	≥ 1500 ppm	13 weeks (6h/day, 5 days/week)	Rat (male/female)	No effect		Read-across
	NOAEC	Equivalent to OECD 421	≥ 300 ppm	8 weeks (6h/day, 5 days/week)	Rat (male/female)	No effect		Read-across
	NOAEL	Equivalent to OECD 422	> 1000 mg/kg bw/day	6 weeks (daily)	Rat (male/female)	No effect		Read-across

Judgement is based on the relevant ingredients

### Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

### Toxicity other effects

#### Fix All Turbo

No (test)data on the mixture available

### Chronic effects from short and long-term exposure

#### Fix All Turbo

No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Fix All Turbo

No (test)data on the mixture available

#### 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 invertebrates	EC50	EU Method C.2	168.7 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC50	EPA 67014-73-0	210 mg/l	7 day(s)	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Nominal concentration
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic invertebrates								Data waiving

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## 3-(trimethoxysilyl)propylamine

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 934 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Read-across; GLP
Acute toxicity invertebrates	EC50	OECD 202	331 mg/l	48 h	Daphnia magna	Static system	Fresh water	Read-across; GLP
Toxicity algae and other aquatic plants	EC50	EU Method C.3	> 1000 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; GLP
Toxicity aquatic micro-organisms	EC50	Other	43 mg/l	5.75 h	Pseudomonas putida	Static system	Fresh water	Read-across; GLP

## hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 1028 mg/l	96 h	Scophthalmus maximus			Experimental value
Acute toxicity invertebrates	LC50	Other	> 3193 mg/l	48 h	Acartia tonsa			Experimental value
Toxicity algae and other aquatic plants	ErC50	ISO 10253	> 10000 mg/l	72 h	Skeletonema costatum			Experimental value
Long-term toxicity fish	NOEL		> 1000 mg/l	28 day(s)	Oncorhynchus mykiss			QSAR
Long-term toxicity aquatic invertebrates	NOEL		> 1000 mg/l	21 day(s)	Daphnia magna			QSAR
Toxicity aquatic micro-organisms	EC50	OECD 209	> 100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value

Judgement is based on the relevant ingredients

### Conclusion

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

## 12.2. Persistence and degradability

### trimethoxyvinylsilane

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	51 %; GLP	28 day(s)	Experimental value

#### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
	0.56 day(s)	500000 /cm <sup>3</sup>	Calculated value

#### Half-life water (t1/2 water)

Method	Value	Primary degradation/mineralisation	Value determination
OECD 111: Hydrolysis as a function of pH	< 2.4 h; pH = 7	Primary degradation	Weight of evidence

### 3-(trimethoxysilyl)propylamine

#### Biodegradation water

Method	Value	Duration	Value determination
EU Method C.4	67 %; GLP	28 day(s)	Experimental value

#### Half-life water (t1/2 water)

Method	Value	Primary degradation/mineralisation	Value determination
	4 h; pH = 7	Primary degradation	QSAR

## hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 306: Biodegradability in Seawater	74 %	28 day(s)	Experimental value

#### Phototransformation water (DT50 water)

Method	Value	Conc. OH-radicals	Value determination
	; No effect		

#### Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value determination
	; No effect		

### Conclusion

Contains non readily biodegradable component(s)

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## 12.3. Bioaccumulative potential

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### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

trimethoxyvinylsilane

### BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
					Data waiving

### Log Kow

Method	Remark	Value	Temperature	Value determination
KOWWIN	Calculated	-2	20 °C	QSAR

3-(trimethoxysilyl)propylamine

### Log Kow

Method	Remark	Value	Temperature	Value determination
		0.2	20 °C	QSAR

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

### Conclusion

Contains bioaccumulative component(s)

## 12.4. Mobility in soil

trimethoxyvinylsilane

### (log) Koc

Parameter	Method	Value	Value determination
			Data waiving

### Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
8.72E-5 atm m <sup>3</sup> /mol		25 °C		Estimated value

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	8.3 %		83.2 %	7.4 %	1 %	Calculated value

### Conclusion

Contains component(s) that adsorb(s) into the soil

## 12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

## 12.6. Other adverse effects

Fix All Turbo

### Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

3-(trimethoxysilyl)propylamine

### Ground water

Ground water pollutant

## 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

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Can be considered as non-hazardous waste according to Regulation (EU) No 1357/2014.

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

Recycle/reuse. Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment.

## 13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 02 (plastic packaging).

## SECTION 14: Transport information

### Road (ADR)

#### 14.1. UN number

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	

### Rail (RID)

#### 14.1. UN number

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
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#### 14.6. Special precautions for user

Special provisions	
Limited quantities	

### Inland waterways (ADN)

#### 14.1. UN number

Transport	Not subject
-----------	-------------

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

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	

### Sea (IMDG/IMSBC)

#### 14.1. UN number

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Transport	Not subject
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	
Class	
14.4. Packing group	
Packing group	
Labels	
14.5. Environmental hazards	
Marine pollutant	-
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	
Limited quantities	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
Annex II of MARPOL 73/78	

## Air (ICAO-TI/IATA-DGR)

14.1. UN number	
Transport	Not subject
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	
Class	
14.4. Packing group	
Packing group	
Labels	
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

## SECTION 15: Regulatory information

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

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
< 5.343 %	
< 80.359 g/l	

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.

<p>trimethoxyvinylsilane 3-(trimethoxysilyl)propylamine hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, &lt;0.03% aromatics</p>	<p>Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are 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.</p>	<p>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 R65 or 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 shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or 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 R65 or H304, intended for supply to the general public are legibly 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 R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</p>
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		No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'
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.

## National legislation The Netherlands

### Fix All Turbo

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 03
Waterbezwaarlijkheid	11

## National legislation Germany

### Fix All Turbo

WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
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### trimethoxyvinylsilane

TA-Luft	5.2.5
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### 3-(trimethoxysilyl)propylamine

TA-Luft	5.2.5
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## National legislation France

### Fix All Turbo

No data available

## National legislation Belgium

### Fix All Turbo

No data available

## Other relevant data

### Fix All Turbo

No data available

## 15.2. Chemical safety assessment

No chemical safety assessment is required.

## SECTION 16: Other information

### Full text of any H-statements referred to under headings 2 and 3:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

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

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,

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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. Old versions must be destroyed. 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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