

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

Adhesive

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

SODAL 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

SODAL 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<5% | Flam. Liq. 3; H226 Acute Tox. 4; H332 | (1)(10) | Constituent |
| hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics 01-2119552497-29 | | 1%<C<5% | Asp. Tox. 1; H304 | (1)(10) | UVCB |

Fix All Turbo

(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. 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

On heating/burning: release of carbon monoxide - carbon dioxide and formation of small quantities of nitrous vapours.

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 leaking substance. Use appropriate containment to avoid environmental contamination.

6.3. Methods and material for containment and cleaning up

Cover spill with inert material, e.g.: sand, earth, vermiculite. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water.

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Revision number: 0400

Product number: 40441

2 / 13

Fix All Turbo

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. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Meet the legal requirements. Store at room temperature. Max. storage time: 1 year(s).

7.2.2 Keep away from:

No data available.

7.2.3 Suitable packaging material:

Synthetic material.

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 ³ | |
| | Long-term systemic effects dermal | 0.69 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 ³ | |
| | Acute systemic effects inhalation | 93.4 mg/m ³ 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 | |

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

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

PNEC

Reason for revision: 3.2

Publication date: 2004-03-30

Date of revision: 2016-02-15

Revision number: 0400

Product number: 40441

3 / 13

Fix All Turbo

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 | |

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

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. 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:

Eye protection not required in normal conditions.

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 | No data available |
| Flammability | Non combustible |
| 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 | water ; insoluble |
| Relative density | 1.515 ; 20 °C |
| Decomposition temperature | No data available |
| Auto-ignition temperature | No data available |
| 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 | 1515 kg/m ³ ; 20 °C |
|------------------|--------------------------------|

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Publication date: 2004-03-30

Date of revision: 2016-02-15

Revision number: 0400

Product number: 40441

4 / 13

Fix All Turbo

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

On heating/burning: release of carbon monoxide - carbon dioxide and formation of small quantities of nitrous vapours.

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 | |

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 ³ 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 | |

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Publication date: 2004-03-30

Date of revision: 2016-02-15

Revision number: 0400

Product number: 40441

5 / 13

Fix All Turbo

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 | |

Judgement is based on the relevant ingredients

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 | |

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 | |

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 sensitizing for inhalation

Not classified as sensitizing for skin

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 |

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 ³ 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

Reason for revision: 3.2

Publication date: 2004-03-30

Date of revision: 2016-02-15

Revision number: 0400

Product number: 40441

6 / 13

Fix All Turbo

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 |

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 |

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

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 |

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

Reason for revision: 3.2

Publication date: 2004-03-30

Date of revision: 2016-02-15

Revision number: 0400

Product number: 40441

7 / 13

Fix All Turbo

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 |

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 of the mixture 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 ³ | 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 |

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Publication date: 2004-03-30

Date of revision: 2016-02-15

Revision number: 0400

Product number: 40441

8 / 13

Fix All Turbo

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)

12.3. Bioaccumulative potential

Fix All Turbo

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 |

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 ³ /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

Contains component(s) that meet(s) the criteria of vPvB as listed in Annex XIII of Regulation (EC) No. 1907/2006.

12.6. Other adverse effects

Fix All Turbo

Global warming potential (GWP)

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)

SECTION 13: Disposal considerations

Reason for revision: 3.2

Publication date: 2004-03-30

Date of revision: 2016-02-15

Revision number: 0400

Product number: 40441

9 / 13

Fix All Turbo

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

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

Remove to an authorized waste treatment plant. 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 |
|--|----|

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 |
|--|----|

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Publication date: 2004-03-30

Date of revision: 2016-02-15

Revision number: 0400

Product number: 40441

10 / 13

Fix All Turbo

14.6. Special precautions for user

| | |
|--------------------|--|
| Special provisions | |
| Limited quantities | |

Sea (IMDG/IMSBC)

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

| | |
|--|----|
| 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 |
|-------------|--------|
| 4 % | |
| 62 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.

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

Reason for revision: 3.2

Publication date: 2004-03-30

Date of revision: 2016-02-15

Revision number: 0400

Product number: 40441

11 / 13

Fix All Turbo

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| | | <p>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";</p> <p>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";</p> <p>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 2010.6. 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.'</p> |
| 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. | <p>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:</p> <ul style="list-style-type: none"> — 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. <p>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:</p> <p>"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.</p> |

National legislation The Netherlands

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| | |
|--|---|
| Waste identification (the Netherlands) | LWCA (the Netherlands): KGA category 05 |
| Waterbezwaarlijkheid | 1 |

National legislation Germany

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

trimethoxyvinylsilane

| | |
|---------|-------|
| TA-Luft | 5.2.5 |
|---------|-------|

National legislation France

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No data available

National legislation Belgium

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No data available

Other relevant data

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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.

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)

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Publication date: 2004-03-30

Date of revision: 2016-02-15

Revision number: 0400

Product number: 40441

12 / 13

Fix All Turbo

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. 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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Product number: 40441

13 / 13