

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

S20-L2-W&D2-Neutr (variant2)

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

1.1. Product identifier

Product name : \$20-L2-W&D2-Neutr (variant2)
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

Sealant

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

SOUDAL 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

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **2** +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 | | Flam. Liq. 3; H226 Acute Tox. 4; H332 | (1)(10) | Constituent |
| hydrocarbons, C15-C20, n-alkan <0.03% aromatics 01-2119827000-58 | es, isoalkanes, cyclics, | | 1% <c<20%< td=""><td>Asp. Tox. 1; H304</td><td>(1)(10)</td><td>UVCB</td></c<20%<> | Asp. Tox. 1; H304 | (1)(10) | UVCB |

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134-15960-493-en

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- (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

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:

Wash with water and soap. Take victim to a doctor if irritation persists.

After eye contact:

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

Rinse mouth with water. Do not induce vomiting. 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:

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Cracking of the skin.

After eye contact:

No effects known.

After ingestion:

AFTER INGESTION OF HIGH QUANTITIES: Nausea. Vomiting. Abdominal pain. Diarrhoea.

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:

Water spray. Polyvalent foam. ABC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide).

5.3. Advice for firefighters

5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

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

No naked flames

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.

6.3. Methods and material for containment and cleaning up

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Scoop solid spill into closing containers. Clean contaminated surfaces with a soap solution. 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

Keep away from naked flames/heat. Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources.

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.

Belgium

| Huiles minérales (brouilla <mark>rds)</mark> | | Time-weighted averag | e exposure limit 8 h | 5 mg/m³ |
|--|--|----------------------|----------------------|----------|
| | | Short time value | | 10 mg/m³ |
| | | | | |

The Netherlands

| Olienevel (minerale olie) | Time-weighted average exposure limit 8 h (Pub | lic occupational exposure | 5 mg/m³ |
|---------------------------|---|---------------------------|---------|
| | limit value) | | |

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.

| Oil Mist (Mineral) | MIOCH | E024 |
|--------------------|-------|------|
| Oil Mist (Mineral) | NIOSH | 5026 |
| | | |

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) | Туре | Value | Remark |
|--------------------------|--|-----------------------|--------|
| DNEL | L <mark>ong-term systemic effec</mark> ts inhalation | 4.9 mg/m ³ | |
| | Long-term systemic effects dermal | 0.69 mg/kg bw/day | |

DNEL/DMEL - General population

trimethoxyvinylsilane

| Effect level (DNEL/DMEL) | | Туре | Value | Remark |
|--------------------------|--|--|------------------------|--------|
| DNEL | | L <mark>ong-term systemic effec</mark> ts inhalation | 1.04 mg/m ³ | |
| | | Acute systemic effects inhalation | 93.4 mg/m³ day | |
| | | <mark>Acute systemic effects de</mark> rmal | 0.3 mg/kg bw/day | |
| | | <mark>Acute systemic effects de</mark> rmal | 26.9 mg/kg bw/day | |
| | | <mark>Long-term systemic effec</mark> ts oral | 0.3 mg/kg bw/day | |

PNEC

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trimethoxyvinylsilane

| Compartments | Value | Remark |
|------------------------------|--------------------------------------|--------|
| Fresh water | <mark>0.34 mg</mark> /l | |
| Marine water | <mark>0.034 m</mark> g/l | |
| Aqua (intermittent releases) | 3.4 mg/l | |
| STP | <mark>110 mg/l</mark> | |
| Fresh water sediment | 1.24 mg/kg sediment dw | |
| Marine water sediment | <mark>0.12 mg/</mark> kg sediment dw | |
| Soil | <mark>0.052 mg</mark> /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 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 | | ste | | |
|--------------------------|-----|---|---------------------------|--|
| Odour | | <mark>naracteristic</mark> odour | | |
| Odour threshold | | o data available | | |
| Colour | | <mark>riable in col</mark> our, depending o | n the composition | |
| Particle size | | ot applicable | | |
| Explosion limits | | <mark>o data availa</mark> ble | | |
| Flammability | | ot easily combustible | | |
| Log Kow | | <mark>ot applicable</mark> (mixture) | | |
| Dynamic viscosity | | <mark>o data availa</mark> ble | | |
| Kinematic viscosity | | <mark>o data availa</mark> ble | | |
| Melting point | | <mark>o data availa</mark> ble | | |
| Boiling point | | <mark>o data availa</mark> ble | | |
| Flash point | | 161 °C | | |
| Evaporation rate | | <mark>o data availa</mark> ble | | |
| Relative vapour density | | <mark>o data availa</mark> ble | | |
| Vapour pressure | | <mark>o data availa</mark> ble | | |
| Solubility | | <mark>o data availa</mark> ble | | |
| Relative density | | 20 °C | | |
| Decomposition temperat | ure | <mark>o data availa</mark> ble | | |
| Auto-ignition temperatur | e | <mark>o data availa</mark> ble | | |
| Explosive properties | | <mark>o chemical g</mark> roup associated v | vith explosive properties | |
| Oxidising properties | | <mark>o chemical g</mark> roup associated v | vith oxidising properties | |
| рН | | o <mark>data availa</mark> ble | | |
| | | | | |

9.2. Other information

| Absolute density | 1000 kg/m³ ; 20 °C | | | | |
|------------------|--------------------|--|--|--|--|
|------------------|--------------------|--|--|--|--|

SECTION 10: Stability and reactivity

10.1. Reactivity

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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

Keep away from naked flames/heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

S20-L2-W&D2-Neutr (variant2)

No (test)data on the mixture available

trimethoxyvinylsilane

| Route of exposure | Parameter | Method | Value | Exposure time | | 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, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

| Route of exposure | Parameter | Method | Value | Exposure time | | Value determination | Remark |
|----------------------|-----------|---------------------------|------------------|---------------|-------------------------|------------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | > 5000 mg/kg bw | | Rat (male/female) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | > 3160 mg/kg bw | | Rabbit (male/female) | Experimental value | |
| Inhalation (aerosol) | LC50 | Equivalent to OECD 403 | > 5266 mg/m³ air | 4 h | Rat (male/female) | Experimental value | |

Judgement is based on the rele<mark>vant ingredients</mark>

Conclusion

Not classified for acute toxicity

Corrosion/irritation

S20-L2-W&D2-Neutr (variant2)

No (test)data on the mixture available

trimethoxyvinylsilane

| Route of exposure | Result | Method | Exposure time | Time point | | Value determination | Remark |
|-------------------|------------------------------|----------|-------------------|---------------------|--------|------------------------|--------|
| Eye | Not irrit <mark>ating</mark> | OECD 405 | <mark>24 h</mark> | 1; 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Not irritating | | 24 h | 24; 48; 72 hours | Rabbit | Experimental value | |

hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

| Route of exposure | Result | Method | Exposure time | Time point | | Value determination | Remark |
|-------------------|------------------------------|----------|-------------------|------------------|--------|------------------------|--------|
| Eye | Not irrit <mark>ating</mark> | OECD 405 | <mark>24 h</mark> | 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Not irritating | OECD 404 | 4 h | 24: 48: 72 hours | Rabbit | Experimental value | |

Judgement is based on the relevant ingredients

Conclusion

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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

S20-L2-W&D2-Neutr (variant2)

No (test)data on the mixture available

trimethoxyvinylsilane

| Route of exposure | Result | Method | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|----------|----------------------------|-----------------------------|---------------------|--------|
| Skin | Not sensitizing | OECD 406 | ., | Guinea pig (male/female) | Experimental value | |

hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

| Route of exposure | Result | Method | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|---------------------------|------------------------|------------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | 24; 48 hours | Guinea pig (female) | Read-across | |

Judgement is based on the relevant ingredients

Conclusion

Not classified as sensitizing for inhalation Not classified as sensitizing for skin

Specific target organ toxicity

S20-L2-W&D2-Neutr (variant2)

No (test)data on the mixture available

trimethoxyvinylsilane

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | | Value determination |
|-------------------------|-----------|-----------------------------|----------------------|-------|--------|--------------------------------------|-----|------------------------|
| Oral (stomach tube) | LOAEL | | 62.5 mg/kg bw/day | , | | 6 weeks (daily) - 8 weeks (daily) | , | Experimental value |
| Inhalation (vapours) | | Subchronic toxicity test | 100 ppm | | 3 | 14 weeks (6h/day, 5 days/week) | ` ' | Experimental value |
| Inhalation (vapours) | | Subchronic toxicity test | 10 ppm | | | 14 weeks (6h/day, 5 days/week) | | Experimental value |

hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | | Value determination |
|-------------------------|-----------|---------------------------|------------------------|-------|-----------|-----------------------------------|----------------------|------------------------|
| Oral | | Equivalent to OECD 408 | > 5000 mg/kg bw/day | | No effect | 13 weeks (daily) | Rat (male/female) | Read-across |
| Dermal | | Equivalent to OECD 411 | > 495 mg/kg/d | | | | Rat (male/female) | Read-across |
| Inhalation (vapours) | | | 10186 mg/m³ air | | | 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)

S20-L2-W&D2-Neutr (variant2)

No (test)data on the mixture available

trimethoxyvinylsilane

| Result | l | 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 | | DECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value |

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hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

| Result | Method | Test substrate | Effect | Value determination |
|---|------------------------|----------------------------------|--------|---------------------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | | Experimental value |
| Negative with metabolic activation, negative without metabolic activation | • | Mouse (lymphoma L5178Y cells) | | Read-across |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 473 | Chinese hamster ovary (CHO) | | Read-across |

Mutagenicity (in vivo)

S20-L2-W&D2-Neutr (variant2)

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, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------|---------------------------|--|---------------------|-------------------------|---------------------|
| Negative | • | <mark>8 we</mark> eks (6h/day, 5 days/week) | Mouse (male) | Male reproductive organ | Read-across |
| Negative | Equivalent to OECD 475 | | Rat (male/female) | Bone marrow | Read-across |
| Negative | Equivalent to OECD 474 | <mark>24 h -</mark> 72 h | Mouse (male/female) | Bone marrow | Read-across |

Carcinogenicity

S20-L2-W&D2-Neutr (variant2)

No (test)data on the mixture available

Reproductive toxicity

S20-L2-W&D2-Neutr (variant2)

No (test)data on the mixture available

trimethoxyvinylsilane

| | Parameter | Method | Value | Exposure time | Species | Effect | . 3. | 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, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|------------------------|-----------|---------------------------|------------------------|---------------|----------------------|-----------|-------|------------------------|
| Developmental toxicity | NOAEL | OECD 414 | > 1000 mg/kg bw/day | 10 day(s) | Rat (female) | No effect | | Experimental value |
| Maternal toxicity | NOAEL | OECD 414 | > 1000 mg/kg bw/day | 10 day(s) | Rat (female) | No effect | | Experimental value |
| Effects on fertility | NOAEL (P) | Equivalent to OECD 422 | > 1000 mg/kg bw/day | | Rat (male/female) | No effect | | Read-across |
| | Noael (P) | Equivalent to OECD 421 | > 1000 mg/kg bw/day | | 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

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No (test)data on the mixture available

Chronic effects from short and long-term exposure

S20-L2-W&D2-Neutr (variant2) No effects known.

SECTION 12: Ecological information

12.1. Toxicity

S20-L2-W&D2-Neutr (variant2)

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 aquati- plants | c EC50 | EPA 67014- 73-0 | 210 mg/l | 7 day(s) | Pseudokirchnerie la subcapitata | Static system | Fresh water | Experimental value; Nominal concentration |
| Long-term toxicity fish | | | | | | | | Data waiving |
| Long-term toxicity aquatic invertebrates | | | | | | | | Data waiving |

hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

| | Parameter | Method | Value | Duration | Species | | Fresh/salt water | Value determination |
|--|-----------|---------------------------|--------------|-----------|-------------------------|-----------------------|---------------------|-----------------------------|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | > 1028 mg/l | 96 h | Scophthalmus maximus | Semi-static system | Salt water | Experimental value; GLP |
| Acute toxicity invertebrates | LC50 | ISO 14669 | > 3193 mg/l | 48 h | Acartia tonsa | Static system | Salt water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | EC50 | ISO 10253 | > 10000 mg/l | 72 h | Skeletonema costatum | Static system | Salt water | Experimental value; GLP |
| Long-term toxicity fish | NOEL | | > 1000 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | QSAR; Growth rate |
| Long-term toxicity aquatic invertebrates | NOEL | US EPA | > 100 mg/l | 8 day(s) | | Semi-static system | Fresh water | QSAR; Nominal concentration |
| Toxicity aquatic micro- organisms | EC50 | OECD 209 | > 100 mg/l | 3 h | Activated sludge | Static system | Fresh water | Experimental value; GLP |

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 |
| n | hatatuanafammatian air (DTFO air) | | | |

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

hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Biodegradation water

| Method | Value | | Value determination | |
|--|-----------|-----------|---------------------|--|
| OECD 306: Biodegradability in Seawater | 74 %; GLP | 28 day(s) | Experimental value | |

Conclusion

Contains non readily biodegradable component(s)

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12.3. Bioaccumulative potential

S20-L2-W&D2-Neutr (variant2)

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, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|-------------------|-------|-------------|---------------------|
| | No data available | | | |

Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

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 | | <mark>25 ℃</mark> | | Estimated value |

hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Percent distribution

| Method Fraction | | Fraction air | Fraction sediment | Fraction soil | Fraction water | Value determination |
|-----------------|------------------|--------------|-----------------------|---------------|----------------|---------------------|
| | Mackay level III | 0.3 % | 92.8 % | 6.8 % | 0.1 % | Calculated value |

Conclusion

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

Contains component(s) with potential for mobility in 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

S20-L2-W&D2-Neutr (variant2)

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)

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

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by 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).

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| SECTION 14: Transpo | rt information | | |
|---------------------------------------|----------------|------------------------------|---------|
| | | | |
| Road (ADR) | | | |
| 14.1. UN number | | | , l |
| Transport | | Not subject | |
| 14.2. UN proper shipping nar | | | |
| 14.3. Transport hazard class(| | | ٦ |
| Hazard identification nun | mber | | |
| Class | | | |
| Classification code | | | |
| 14.4. Packing group | | | , |
| Packing group | | | |
| Labels | | | |
| 14.5. Environmental hazards | | | , |
| Environmentally hazardo | | no | |
| 14.6. Special precautions for | user | | _ |
| Special provisions | | | |
| Limited quantities | | | |
| Rail (RID) | | | |
| 14.1. UN number | | | |
| Transport | | Not subject | 1 |
| 14.2. UN proper shipping nar | me | , vot subject | J |
| 14.3. Transport hazard class(| | | |
| Hazard identification nun | | | 1 |
| Class | TIDO | | |
| Classification code | | | |
| 14.4. Packing group | | | _ |
| | | | 1 |
| Packing group Labels | | | - |
| Labels 14.5. Environmental hazards | | |] |
| | | 20 | 1 |
| Environmentally hazardo | | no | _ |
| 14.6. Special precautions for | user | | 1 |
| Special provisions Limited quantities | | | |
| Limited quantities | | | |
| Inland waterways (ADN) | | | |
| 14.1. UN number | | | |
| Transport | | Not subject | 1 |
| 14.2. UN proper shipping nar | me | | |
| 14.3. Transport hazard class(| | | |
| Class | | | 1 |
| Classification code | | | |
| 14.4. Packing group | | | _ |
| Packing group | | | 1 |
| Labels | | | 1 |
| 14.5. Environmental hazards | | | _ |
| Environmentally hazardo | | no | 1 |
| 14.6. Special precautions for | | | L |
| Special provisions | | |] |
| Limited quantities | | | ┪ |
| | | | _ |
| Sea (IMDG/IMSBC) | | | |
| 14.1. UN number | | | _ |
| Transport | | Not subject |] |
| 14.2. UN proper shipping nar | | | |
| 14.3. Transport hazard class(| (es) | | _ |
| Class | | | |
| 14.4. Packing group | | | _ |
| Packing group | | | |
| Labels | | | 1 |
| 14.5. Environmental hazards | | | - |
| December we determ 2.2 | | D. L. 11. 11. 2004 40 44 | |
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| | | | |
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| | | | |

| Marine pollutant | | | |
|---|--|------------|-------------|
| Environmentally hazardo | us substance mark | | no |
| 14.6. Special precautions for | user | | |
| Special provisions | | | |
| Limited quantities | | | |
| | ding to Annex II of Marpol and the IBC C | Code | |
| Annex II of MARPOL 73/7 | 78 | | |
| Air (ICAO-TI/IATA-DGR) 14.1. UN number | | | |
| Transport | | | Not subject |
| 14.2. UN proper shipping nar 14.3. Transport hazard class(| | | |
| Class | | | |
| 14.4. Packing group | | | |
| Packing group | | | |
| Labels | | | |
| 14.5. Environmental hazards | | | |
| Environmentally hazardo | | | no |
| 14.6. Special precautions for | user | | |
| Special provisions | | | |
| Passenger and cargo trar per packaging | nsport: limited quantities: maximum net | t quantity | |

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 | |
|-------------|--------|--|
| < 0.767 % | | |
| < 7.67 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 | | Liquid substances or mixtures which are | 1. Shall not be used in: | | | | |
|---------------------------------------|--|--|--|--|--|--|--|
| hydrocarbons, C15-C20, n-alkanes, | | regarded as dangerous in accordance with | — ornamental articles intended to produce light or colour effects by means of different | | | | |
| isoalkanes, cyclics, <0.03% aromatics | | | phases, for example in ornamental lamps and ashtrays, | | | | |
| | | for any of the following hazard classes or | — tricks and jokes, | | | | |
| | | categories set out in Annex I to Regulation (EC) | games for one or more participants, or any article intended to be used as such, even with | | | | |
| | | No 1272/2008: | ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the | | | | |
| | | (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 | market.3. Shall not be placed on the market if they contain a colouring agent, unless required | | | | |
| | | types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 | for fiscal reasons, or perfume, or both, if they: | | | | |
| | | and 2, 2.14 categories 1 and 2, 2.15 types A to | can be used as fuel in decorative oil lamps for supply to the general public, and, | | | | |
| | | F; | present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for | | | | |
| | | (b) hazard classes 3.1 to 3.6, 3.7 adverse effects | supply to the general public shall not be placed on the market unless they conform to the | | | | |
| | | on sexual function and fertility or on | European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee | | | | |
| | | development, 3.8 effects other than narcotic | for Standardisation (CEN).5. Without prejudice to the implementation of other Community | | | | |
| | | effects, 3.9 and 3.10; | provisions relating to the classification, packaging and labelling of dangerous substances and | | | | |
| | | (c) hazard class 4.1; | mixtures, suppliers shall ensure, before the placing on the market, that the following | | | | |
| | | (d) hazard class 5.1. | 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 2010.6. | | | | |
| | | | 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.' | | | | |
| · trimethoxyvinylsilane | | Substances classified as flammable gases | 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol | | | | |
| | | category 1 or 2, flammable liquids categories 1, | dispensers are intended for supply to the general public for entertainment and decorative | | | | |
| | | 2 or 3, flammable solids category 1 or 2, | purposes such as the following: | | | | |
| | | _ 1. 1, | F | | | | |

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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.

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 Belgium

S20-L2-W&D2-Neutr (variant2)

No data available

National legislation The Netherlands

S20-L2-W&D2-Neutr (variant2)

| SZO LZ WADZ NCALI (Variantz) | | | |
|------------------------------|--------------------------------|------------|--|
| Waste identification (the | LWCA (the Netherlands): KGA of | ategory 04 | |
| Netherlands) | | | |
| Waterbezwaarlijkheid | B (5) | | |

National legislation France

S20-L2-W&D2-Neutr (variant2)

No data available

National legislation Germany

S20-L2-W&D2-Neutr (variant2)

| | WGK | 2; Classification water polluting Stoffe (VwVwS) of 27 July 2005 | | with Verw | altungsvorschrift wassergefährdender |
|-----------------------|-----|---|--|-----------|--------------------------------------|
| trimathaussinulailana | | | | | |

trimethoxyvinylsilane

TA-Luft 5.2.5

hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

TA-Luft

5.2.5

National legislation United Kingdom

S20-L2-W&D2-Neutr (variant2)

No data available

Other relevant data

S20-L2-W&D2-Neutr (variant2)

No data available

hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

TLV - Carcinogen Mineral oil, poorly and mildly refined; A2

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)

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,

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