

SAFETY DATA SHEET

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



NOVAFILLER

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

1.1. Product identifier

Product name : NOVAFILLER
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

Paint

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*
Industrielaan 5B
B-2250 Olen
☎ +32 14 25 76 40
☎ +32 14 22 02 66
info@novatio.be
*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|-----------------|------------|--|
| Aerosol | category 1 | H222: Extremely flammable aerosol. |
| Aerosol | category 1 | H229: Pressurised container: May burst if heated. |
| Eye Irrit. | category 2 | H319: Causes serious eye irritation. |
| STOT SE | category 3 | H336: May cause drowsiness or dizziness. |
| Aquatic Chronic | category 3 | H412: Harmful to aquatic life with long lasting effects. |

2.2. Label elements



Contains: acetone; n-butyl acetate.

Signal word Danger

H-statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

P-statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

<http://www.big.be>

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Product number: 51293

1 / 26

878-16239-001-en

NOVAFILLER

P251 Do not pierce or burn, even after use.
 P280 Wear eye protection.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.
 EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

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 | M-factors and ATE |
|--|-------------------------|-----------------|---|----------------|-------------|--|
| acetone 01-2119471330-49 | 67-64-1 200-662-2 | 20%<C<25% | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066 | (1)(2)(10) | Constituent | |
| n-butyl acetate 01-2119485493-29 | 123-86-4 204-658-1 | 12.5% <C<20% | Flam. Liq. 3; H226 STOT SE 3; H336 EUH066 | (1)(2)(10) | Constituent | |
| 2-methoxy-1-methylethyl acetate 01-2119475791-29 | 108-65-6 203-603-9 | 2.5%<C<5% | Flam. Liq. 3; H226 | (1)(2)(10) | Constituent | |
| butan-1-ol 01-2119484630-38 | 71-36-3 200-751-6 | C<2.5% | Flam. Liq. 3; H226 Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335 STOT SE 3; H336 | (1)(2)(10) | Constituent | |
| trizinc bis(orthophosphate) 01-2119485044-40 | 7779-90-0 231-944-3 | C<1% | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | (1) | Constituent | M: 1 (Acute, ECHA (registration dossier)) M: 1 (Chronic, ECHA (registration dossier)) |
| propan-2-ol 01-2119457558-25 | 67-63-0 200-661-7 | C<2.5% | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | (1)(2)(10) | Constituent | |
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | 13463-67-7 236-675-5 | 5%<C<10% | Carc. 2; H351 | (1)(2) | Constituent | |
| dimethyl ether 01-2119472128-37 | 115-10-6 204-065-8 | 12.5% <C<20% | Flam. Gas 1A; H220 Press. Gas - Liquefied gas; | (1)(2)(10) | Propellant | |
| propane 01-2119486944-21 | 74-98-6 200-827-9 | 5%<C<10% | Flam. Gas 1A; H220 Press. Gas - Liquefied gas; | (1)(2)(10) | Propellant | |
| butane | 106-97-8 203-448-7 | 2.5%<C<5% | Flam. Gas 1A; H220 Press. Gas - Liquefied gas; | (1)(2)(10)(21) | Propellant | |
| isobutane 01-2119485395-27 | 75-28-5 200-857-2 | 2.5%<C<5% | Flam. Gas 1A; H220 Press. Gas - Liquefied gas; | (1)(2)(10)(21) | Propellant | |

- (1) For H- and EUH-statements in full: see heading 16
 (2) Substance with a Community workplace exposure limit
 (10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006
 (21) 1,3-butadiene <0.1%

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

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

After inhalation:

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Date of revision: 2020-11-25

Revision number: 0300

Product number: 51293

2 / 26

NOVAFILLER

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

After skin contact:

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

After eye contact:

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

After ingestion:

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

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

4.2.1 Acute symptoms

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Central nervous system depression. Dizziness. Drowsiness.

After skin contact:

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

After eye contact:

Irritation of the eye tissue.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Water, Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.

Major fire: Quantities of water.

5.2. Special hazards arising from the substance or mixture

Upon combustion CO and CO2 are formed and formation of metal oxides.

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective goggles (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective goggles (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Dam up the liquid spill.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Do not wash down with water. Take collected spill to manufacturer/competent authority. 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

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Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Take precautions against electrostatic charges. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Remove contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Keep out of direct sunlight. Store in a dry area. Keep container in a well-ventilated place. Fireproof storeroom. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Aerosol.

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.

EU

| | | |
|--------------------------------|---|------------------------|
| 2-Methoxy-1-methylethylacetate | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 50 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 275 mg/m ³ |
| | Short time value (Indicative occupational exposure limit value) | 100 ppm |
| | Short time value (Indicative occupational exposure limit value) | 550 mg/m ³ |
| Acetone | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 500 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 1210 mg/m ³ |
| Dimethylether | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 1920 mg/m ³ |
| n-Butyl acetate | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 50 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 241 mg/m ³ |
| | Short time value (Indicative occupational exposure limit value) | 150 ppm |
| | Short time value (Indicative occupational exposure limit value) | 723 mg/m ³ |

Belgium

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| | | |
|--|--|------------------------|
| Acétate de 2-(1-méthoxy)propyle | Time-weighted average exposure limit 8 h | 50 ppm |
| | Time-weighted average exposure limit 8 h | 275 mg/m ³ |
| | Short time value | 100 ppm |
| | Short time value | 550 mg/m ³ |
| Acétate de n-butyle | Time-weighted average exposure limit 8 h | 50 ppm |
| | Time-weighted average exposure limit 8 h | 238 mg/m ³ |
| | Short time value | 150 ppm |
| | Short time value | 712 mg/m ³ |
| Acétone | Time-weighted average exposure limit 8 h | 500 ppm |
| | Time-weighted average exposure limit 8 h | 1210 mg/m ³ |
| | Short time value | 1000 ppm |
| | Short time value | 2420 mg/m ³ |
| Alcool isopropylique | Time-weighted average exposure limit 8 h | 200 ppm |
| | Time-weighted average exposure limit 8 h | 500 mg/m ³ |
| | Short time value | 400 ppm |
| | Short time value | 1000 mg/m ³ |
| Alcool n-butylique | Time-weighted average exposure limit 8 h | 20 ppm |
| | Time-weighted average exposure limit 8 h | 62 mg/m ³ |
| Butane, tous isomères: iso-butane | Short time value | 980 ppm |
| | Short time value | 2370 mg/m ³ |
| Butane, tous isomères: n-butane | Short time value | 980 ppm |
| | Short time value | 2370 mg/m ³ |
| Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3) | Time-weighted average exposure limit 8 h | 1000 ppm |
| Oxyde de diméthyle | Time-weighted average exposure limit 8 h | 1000 ppm |
| | Time-weighted average exposure limit 8 h | 1920 mg/m ³ |
| Titane (dioxyde de) | Time-weighted average exposure limit 8 h | 10 mg/m ³ |

The Netherlands

| | | |
|---------------------------|---|------------------------|
| 1-Methoxy-2-propylacetaat | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 100 ppm |
| 1-methoxy-2-propylacetaat | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 550 mg/m ³ |
| Aceton | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 501 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 1210 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 1002 ppm |
| | Short time value (Public occupational exposure limit value) | 2420 mg/m ³ |
| Dimethylether | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 496 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 950 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 783 ppm |
| | Short time value (Public occupational exposure limit value) | 1500 mg/m ³ |

France

| | | |
|-------------------------------------|--|------------------------|
| Acétate de 2-méthoxy-1-méthyléthyle | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 50 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 275 mg/m ³ |
| | Short time value (VRC: Valeur réglementaire contraignante) | 100 ppm |
| | Short time value (VRC: Valeur réglementaire contraignante) | 550 mg/m ³ |
| Acétate de n-butyle | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 150 ppm |
| | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 710 mg/m ³ |
| | Short time value (VL: Valeur non réglementaire indicative) | 200 ppm |
| | Short time value (VL: Valeur non réglementaire indicative) | 940 mg/m ³ |
| Acétone | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 500 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 1210 mg/m ³ |
| | Short time value (VRC: Valeur réglementaire contraignante) | 1000 ppm |
| | Short time value (VRC: Valeur réglementaire contraignante) | 2420 mg/m ³ |
| Alcool isopropylique | Short time value (VL: Valeur non réglementaire indicative) | 400 ppm |
| | Short time value (VL: Valeur non réglementaire indicative) | 980 mg/m ³ |
| Alcool n-butylique | Short time value (VL: Valeur non réglementaire indicative) | 50 ppm |
| | Short time value (VL: Valeur non réglementaire indicative) | 150 mg/m ³ |

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Revision number: 0300

Product number: 51293

5 / 26

NOVAFILLER

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| n-Butane | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 800 ppm |
| | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 1900 mg/m ³ |
| Oxyde de diméthyle | Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative) | 1920 mg/m ³ |
| Titane (dioxyde de), en Ti | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 10 mg/m ³ |

Germany

| | | |
|-------------------------------|---|------------------------|
| 2-Methoxy-1-méthylethylacetat | Time-weighted average exposure limit 8 h (TRGS 900) | 50 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 270 mg/m ³ |
| Aceton | Time-weighted average exposure limit 8 h (TRGS 900) | 500 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1200 mg/m ³ |
| Butan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 2400 mg/m ³ |
| Butan-1-ol | Time-weighted average exposure limit 8 h (TRGS 900) | 100 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 310 mg/m ³ |
| Dimethylether | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1900 mg/m ³ |
| Isobutan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 2400 mg/m ³ |
| n-Butylacetat | Time-weighted average exposure limit 8 h (TRGS 900) | 62 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 300 mg/m ³ |
| Propan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1800 mg/m ³ |
| Propan-2-ol | Time-weighted average exposure limit 8 h (TRGS 900) | 200 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 500 mg/m ³ |

UK

| | | |
|-------------------------|---|------------------------|
| 1-Methoxypropyl acetate | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 50 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 274 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 100 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 548 mg/m ³ |
| Acetone | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 500 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1210 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1500 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 3620 mg/m ³ |
| Butan-1-ol | Short time value (Workplace exposure limit (EH40/2005)) | 50 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 154 mg/m ³ |
| Butane | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 600 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1450 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 750 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1810 mg/m ³ |
| Butyl acetate | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 150 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 724 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 200 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 966 mg/m ³ |
| Dimethyl ether | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 400 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 766 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 500 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 958 mg/m ³ |
| Propan-2-ol | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 400 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 999 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 500 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1250 mg/m ³ |

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Product number: 51293

6 / 26

NOVAFILLER

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|----------------------------------|---|----------------------|
| Titanium dioxide respirable | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 4 mg/m ³ |
| Titanium dioxide total inhalable | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 10 mg/m ³ |

USA (TLV-ACGIH)

| | | |
|-----------------------------|--|----------------------|
| 2-propanol | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 200 ppm |
| | Short time value (TLV - Adopted Value) | 400 ppm |
| Acetone | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 250 ppm |
| | Short time value (TLV - Adopted Value) | 500 ppm |
| Butane, isomers | Short time value (TLV - Adopted Value) | 1000 ppm |
| Butyl acetates, all isomers | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 50 ppm |
| | Short time value (TLV - Adopted Value) | 150 ppm |
| n-Butanol | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 20 ppm |
| Titanium dioxide | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 10 mg/m ³ |

b) National biological limit values

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

Germany

| | | | |
|--|---|-------------------------------------|---|
| Aceton (Aceton) | Urin: expositionsende, bzw. schichtende | 80 mg/l | |
| Butan-1-ol (1-Butanol) (Butan-1-ol (1-Butanol) (nach Hydrolyse)) | Urin: expositionsende, bzw. schichtende | 10 mg/g Kreatinin | |
| Butan-1-ol (1-Butanol) (Butan-1-ol (1-Butanol) (nach Hydrolyse)) | Urin: vor nachfolgender schicht | 2 mg/g Kreatinin | |
| Propan-2-ol (Aceton) | Urin: expositionsende, bzw. schichtende | 25 mg/l | |
| Propan-2-ol (Aceton) | Vollblut: expositionsende, bzw. schichtende | 25 mg/l | |
| Vitamin K-Antagonisten (Quick-Wert) | Vollblut: keine beschränkung | Reduktion auf nicht weniger als 70% | Ableitung des BGW als Höchstwert wegen akut toxischer Effekte |

USA (BEI-ACGIH)

| | | | |
|----------------------|--|---------|-------------------------|
| 2-Propanol (Acetone) | Urine: end of shift at end of workweek | 40 mg/L | Background, Nonspecific |
| Acetone (Acetone) | Urine: end of shift | 25 mg/L | Nonspecific |

8.1.2 Sampling methods

| Product name | Test | Number |
|---|-------|--------|
| 1-Methoxy-2-Propyl Acetate | OSHA | 99 |
| Acetone (ketones 1) | NIOSH | 1300 |
| Acetone (ketones I) | NIOSH | 2555 |
| Acetone (organic and inorganic gases by Extractive FTIR) | NIOSH | 3800 |
| Acetone (Volatile Organic compounds) | NIOSH | 2549 |
| ACETONE and METHYL ETHYL KETONE in urine | NIOSH | 8319 |
| Acetone | OSHA | 69 |
| Butanol (Volatile Organic compounds) | NIOSH | 2549 |
| Butyl acetate (Volatile Organic compounds) | NIOSH | 2549 |
| Butyl Alcohol | OSHA | 7 |
| Isopropanol (Volatile Organic compounds) | NIOSH | 2549 |
| Isopropyl Alcohol (Alcohols I) | NIOSH | 1400 |
| Isopropyl Alcohol | OSHA | 109 |
| n-Butyl Acetate (Esters I) | NIOSH | 1450 |
| n-Butyl Acetate | OSHA | 1009 |
| n-Butyl Alcohol (Alcohols Combined) | NIOSH | 1405 |
| n-Butyl Alcohol (Alcohols II) | NIOSH | 1401 |
| Propylene glycol monomethyl ether acetate (glycol ethers) | NIOSH | 2554 |
| TiO ₂ | NIOSH | 7302 |
| TiO ₂ | NIOSH | 7304 |
| Zinc & Cpds (as Zn) | NIOSH | 7030 |

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

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

8.1.4 Threshold values

DNEL/DMEL - Workers

acetone

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 1210 mg/m ³ | |
| | Acute local effects inhalation | 2420 mg/m ³ | |
| | Long-term systemic effects dermal | 186 mg/kg bw/day | |

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7 / 26

NOVAFILLER

n-butyl acetate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 300 mg/m ³ | |
| | Acute systemic effects inhalation | 600 mg/m ³ | |
| | Long-term local effects inhalation | 300 mg/m ³ | |
| | Acute local effects inhalation | 600 mg/m ³ | |
| | Long-term systemic effects dermal | 11 mg/kg bw/day | |
| | Acute systemic effects dermal | 11 mg/kg bw/day | |

2-methoxy-1-methylethyl acetate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 275 mg/m ³ | |
| | Acute local effects inhalation | 550 mg/m ³ | |
| | Long-term systemic effects dermal | 796 mg/kg bw | |

butan-1-ol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|------------------------------------|-----------------------|--------|
| DNEL | Long-term local effects inhalation | 310 mg/m ³ | |

trizinc bis(orthophosphate)

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|---------------------|--------|
| DNEL | Long-term systemic effects inhalation | 5 mg/m ³ | |
| | Long-term systemic effects dermal | 83 mg/kg bw/day | |

propan-2-ol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 500 mg/m ³ | |
| | Long-term systemic effects dermal | 888 mg/kg bw/day | |

DNEL/DMEL - General population

acetone

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 200 mg/m ³ | |
| | Long-term systemic effects dermal | 62 mg/kg bw/day | |
| | Long-term systemic effects oral | 62 mg/kg bw/day | |

n-butyl acetate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 35.7 mg/m ³ | |
| | Acute systemic effects inhalation | 300 mg/m ³ | |
| | Long-term local effects inhalation | 35.7 mg/m ³ | |
| | Acute local effects inhalation | 300 mg/m ³ | |
| | Long-term systemic effects dermal | 6 mg/kg bw/day | |
| | Acute systemic effects dermal | 6 mg/kg bw/day | |
| | Long-term systemic effects oral | 2 mg/kg bw/day | |
| | Acute systemic effects oral | 2 mg/kg bw/day | |

2-methoxy-1-methylethyl acetate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 33 mg/m ³ | |
| | Long-term local effects inhalation | 33 mg/m ³ | |
| | Long-term systemic effects dermal | 320 mg/kg bw | |
| | Long-term systemic effects oral | 36 mg/kg bw | |

butan-1-ol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|--------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 55.357 mg/m ³ | |
| | Long-term local effects inhalation | 155 mg/m ³ | |
| | Long-term systemic effects dermal | 3.125 mg/kg bw/day | |
| | Long-term systemic effects oral | 1.562 mg/kg bw/day | |

trizinc bis(orthophosphate)

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 2.5 mg/m ³ | |
| | Long-term systemic effects dermal | 83 mg/kg bw/day | |
| | Long-term systemic effects oral | 0.83 mg/kg bw/day | |

propan-2-ol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 89 mg/m ³ | |
| | Long-term systemic effects dermal | 319 mg/kg bw/day | |
| | Long-term systemic effects oral | 26 mg/kg bw/day | |

PNEC

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acetone

| Compartments | Value | Remark |
|-------------------------------------|------------------------|--------|
| Fresh water | 10.6 mg/l | |
| Marine water | 1.06 mg/l | |
| Fresh water (intermittent releases) | 21 mg/l | |
| STP | 100 mg/l | |
| Fresh water sediment | 30.4 mg/kg sediment dw | |
| Marine water sediment | 3.04 mg/kg sediment dw | |
| Soil | 29.5 mg/kg soil dw | |

n-butyl acetate

| Compartments | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.18 mg/l | |
| Marine water | 0.018 mg/l | |
| Fresh water (intermittent releases) | 0.36 mg/l | |
| STP | 35.6 mg/l | |
| Fresh water sediment | 0.981 mg/kg sediment dw | |
| Marine water sediment | 0.098 mg/kg sediment dw | |
| Soil | 0.09 mg/kg soil dw | |

2-methoxy-1-methylethyl acetate

| Compartments | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.635 mg/l | |
| Marine water | 0.064 mg/l | |
| Fresh water (intermittent releases) | 6.35 mg/l | |
| STP | 100 mg/l | |
| Fresh water sediment | 3.29 mg/kg sediment dw | |
| Marine water sediment | 0.329 mg/kg sediment dw | |
| Soil | 0.29 mg/kg soil dw | |

butan-1-ol

| Compartments | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.082 mg/l | |
| Marine water | 0.008 mg/l | |
| Fresh water (intermittent releases) | 2.25 mg/l | |
| STP | 2476 mg/l | |
| Fresh water sediment | 0.324 mg/kg sediment dw | |
| Marine water sediment | 0.032 mg/kg sediment dw | |
| Soil | 0.017 mg/kg soil dw | |

trizinc bis(orthophosphate)

| Compartments | Value | Remark |
|-----------------------|-------------------------|--------|
| Fresh water | 20.6 µg/l | |
| Marine water | 6.1 µg/l | |
| STP | 100 µg/l | |
| Fresh water sediment | 117.8 mg/kg sediment dw | |
| Marine water sediment | 56.5 mg/kg sediment dw | |
| Soil | 35.6 mg/kg soil dw | |

propan-2-ol

| Compartments | Value | Remark |
|-------------------------------------|-----------------------|--------|
| Fresh water | 140.9 mg/l | |
| Fresh water (intermittent releases) | 140.9 mg/l | |
| Marine water | 140.9 mg/l | |
| STP | 2251 mg/l | |
| Fresh water sediment | 552 mg/kg sediment dw | |
| Marine water sediment | 552 mg/kg sediment dw | |
| Soil | 28 mg/kg soil dw | |
| Oral | 160 mg/kg food | |

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

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Take precautions against electrostatic charges. Measure the concentration in the air regularly.

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:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

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| Materials | Measured breakthrough time | Thickness | Protection index | Remark |
|--------------|----------------------------|-----------|------------------|--------|
| butyl rubber | > 480 minutes | 0.4 mm | Class 6 | |

c) Eye protection:

Protective goggles (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

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 | Aerosol |
| Odour | Solvent-like odour |
| Odour threshold | No data available in the literature |
| Colour | Beige |
| Particle size | Not applicable (aerosol) |
| Explosion limits | 1.2 - 26.2 vol % ; Liquid |
| Flammability | Extremely flammable aerosol. |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | Not applicable (aerosol) |
| Kinematic viscosity | Not applicable (aerosol) |
| Melting point | Not applicable (aerosol) |
| Boiling point | Not applicable (aerosol) |
| Relative vapour density | No data available in the literature |
| Vapour pressure | 4000 hPa ; 20 °C ; Liquid |
| Solubility | Water ; insoluble ; Liquid |
| Relative density | 0.80 ; 20 °C |
| Absolute density | 800 kg/m ³ ; 20 °C |
| Decomposition temperature | No data available in the literature |
| Auto-ignition temperature | Not applicable (aerosol) |
| Flash point | Not applicable (aerosol) |
| pH | Not applicable (aerosol) |

9.2. Other information

| | |
|----------------------|-------------------------------------|
| Evaporation rate | No data available in the literature |
| Explosive properties | Not classified |
| Oxidising properties | Not classified |

SECTION 10: Stability and reactivity

10.1. Reactivity

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Take precautions against electrostatic charges.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Upon combustion CO and CO₂ are formed and formation of metal oxides.

SECTION 11: Toxicological information

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

11.1.1 Test results

Acute toxicity

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No (test)data on the mixture available

Reason for revision: 3.2; 9; 12; 15

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Product number: 51293

10 / 26

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Judgement is based on the relevant ingredients

acetone

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|--------|------------------|---------------|---------------|---------------------|--------|
| Oral | LD50 | | 5800 mg/kg | | Rat (female) | Experimental value | |
| Dermal | LD50 | | > 15800 mg/kg bw | 24 h | Rabbit (male) | Weight of evidence | |
| Inhalation (vapours) | LC50 | | 76 mg/l | 4 h | Rat (female) | Weight of evidence | |
| | | | | | (male) | | |

n-butyl acetate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|---------------------------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 423 | 10760 mg/kg bw - 12789 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | > 14112 mg/kg bw | | Rabbit (male / female) | Experimental value | |
| Inhalation (aerosol) | LC50 | OECD 403 | 0.74 mg/l | 4 h | Rat (male / female) | Experimental value | |

2-methoxy-1-methylethyl acetate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|------------------------|-----------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | 6190 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | > 5000 mg/kg bw | 24 h | Rabbit (male / female) | Experimental value | |
| Inhalation | LC0 | Equivalent to OECD 403 | 10.8 mg/l | 3 h | Rat (male) | Experimental value | |

butan-1-ol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|------------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | 2292 mg/kg bw | | Rat (female) | Experimental value | |
| Oral | | | category 4 | | | Annex VI | |
| Dermal | LD50 | Equivalent to OECD 402 | 3430 mg/kg bw | 24 h | Rabbit (male) | Experimental value | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | > 17.76 mg/l air | 4 h | Rat (male / female) | Experimental value | |

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

trizinc bis(orthophosphate)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|------------------------|-----------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | OECD 401 | > 5000 mg/kg bw | | Rat | Experimental value | |
| Dermal | | | | | | Data waiving | |
| Inhalation (dust) | LC50 | Equivalent to OECD 403 | > 5.70 mg/l air | 4 h | Rat (male / female) | Read-across | |

propan-2-ol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|----------------|---------------|---------------------|---------------------|-----------------|
| Oral | LD50 | Equivalent to OECD 401 | 5840 mg/kg bw | | Rat | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | 12882 mg/kg bw | 24 h | Rabbit | Experimental value | Converted value |
| Dermal | LD50 | Equivalent to OECD 402 | 16400 ml/kg bw | 24 h | Rabbit | Experimental value | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | > 10000 ppm | 6 h | Rat (male / female) | Experimental value | |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|----------|-----------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | OECD 401 | > 2000 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | | | | | | Data waiving | |
| Inhalation (dust) | LC50 | OECD 403 | > 5.09 mg/l | 4 h | Rat (male) | Experimental value | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

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Product number: 51293

11 / 26

NOVAFILLER

No (test)data on the mixture available

Classification is based on the relevant ingredients

acetone

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|---------------------|-------------------------|---------------|------------------------|------------|---------------------|-------------------------------|
| Eye | Irritating | OECD 405 | 24 h | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment with rinsing |
| Skin | Not irritating | | 3 day(s) | 24; 48; 72 hrs; 4 days | Guinea pig | Weight of evidence | |
| Inhalation | Slightly irritating | Human observation study | 20 minutes | | Human | Literature | |

n-butyl acetate

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|------------------|---------|---------------------|----------------------------------|
| Eye | Not irritating | OECD 405 | | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment without rinsing |
| Dermal | Not irritating | Equivalent to OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

2-methoxy-1-methylethyl acetate

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|------------------|---------|---------------------|------------------|
| Eye | Not irritating | Equivalent to OECD 405 | | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment |
| Skin | Not irritating | Equivalent to OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

butan-1-ol

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|--------------------|-------------------|---------------|------------------|---------|---------------------|--------|
| Eye | Serious eye damage | OECD 405 | | 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Irritating | Draize Skin Test | | 24; 48; 72 hours | Rabbit | Experimental value | |
| Inhalation | Irritating | Human observation | | | Human | Experimental value | |

trizinc bis(orthophosphate)

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------|---------------|---------------------|---------|---------------------|--------|
| Eye | Not irritating | OECD 405 | 72 h | 1; 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Not irritating | Patch test | 5 day(s) | | Rabbit | Read-across | |

propan-2-ol

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|---------------------|---------|---------------------|------------------|
| Eye | Irritating | Equivalent to OECD 405 | | 24 hours | Rabbit | Experimental value | Single treatment |
| Skin | Not irritating | | 4 h | 4; 24; 48; 72 hours | Rabbit | Experimental value | |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|---------------------|---------|---------------------|--------|
| Eye | Not irritating | OECD 405 | | 1; 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Not irritating | Equivalent to OECD 404 | 4 h | 48 hours | Rabbit | Experimental value | |

Conclusion

Causes serious eye irritation.

Not classified as irritating to the skin

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

NOVAFILLER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

acetone

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------------|---------------|------------------------|---------------------|---------------------|--------|
| Skin | Not sensitizing | Guinea pig maximisation test | | | Guinea pig (female) | Experimental value | |
| Skin | Not sensitizing | Human observation | | | Human | Experimental value | |

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12 / 26

NOVAFILLER

n-butyl acetate

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | | | Guinea pig | Experimental value | |

2-methoxy-1-methylethyl acetate

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

butan-1-ol

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|----------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 429 | | | Mouse (female) | Experimental value | |

trizinc bis(orthophosphate)

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|----------|---------------|------------------------|---------------------|---------------------|--------|
| Skin | Not sensitizing | OECD 406 | | | Guinea pig (female) | Read-across | |

propan-2-ol

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

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|----------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 429 | | | Mouse (female) | Experimental value | |
| Inhalation (dust) | Not sensitizing | | | | Mouse (female) | Experimental value | |

Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

Specific target organ toxicity

NOVAFILLER

No (test) data on the mixture available

Classification is based on the relevant ingredients

acetone

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-----------------------|------------|--------------------------|---------------------------------------|------------------------|--------------------|---------------|-----------------------|-----------------------|
| Oral (drinking water) | NOAEL | Equivalent to OECD 408 | 4.86 mg/kg bw/day - 5.95 mg/kg bw/day | | No effect | 13 week(s) | Mouse (male / female) | Experimental value |
| Oral (drinking water) | LOAEL | Equivalent to OECD 408 | 11.3 mg/kg bw/day | Liver | Histopathology | | Mouse (female) | Experimental value |
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | NOAEC | Subchronic toxicity test | 19000 ppm | | No effect | 8 week(s) | Rat (male) | Experimental value |
| Inhalation (vapours) | Dose level | Human observation study | 361 ppm | Central nervous system | neurotoxic effects | 2 day(s) | Human | Epidemiological study |

n-butyl acetate

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|--------------------------|------------------|------------------------|-----------------------------------|---------------------------------|---------------------|---------------------|
| Oral (stomach tube) | NOAEL | Subchronic toxicity test | 125 mg/kg bw/day | | No effect | 13 week(s) | Rat (male / female) | Read-across |
| Oral (stomach tube) | LOAEL | Subchronic toxicity test | 500 mg/kg bw/day | Central nervous system | Central nervous system depression | 13 day(s) | Rat (male / female) | Read-across |
| Inhalation (vapours) | NOAEC | EPA OTS 798.2450 | 500 ppm | | No adverse systemic effects | 13 weeks (daily, 5 days / week) | Rat (male / female) | Experimental value |

Reason for revision: 3.2; 9; 12; 15

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13 / 26

NOVAFILLER

2-methoxy-1-methylethyl acetate

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|------------|------------------------|-------------------|-------|-----------------------|-------------------------------------|---------------------|---------------------|
| Oral (stomach tube) | NOAEL | OECD 422 | ≥ 1000 mg/kg | | No effect | 41 day(s) - 45 day(s) | Rat (male / female) | Experimental value |
| Oral (stomach tube) | Dose level | US EPA | 500 mg/kg bw/day | | Drowsiness, dizziness | | Rat (male / female) | Experimental value |
| Dermal | NOAEL | Equivalent to OECD 411 | 1838 mg/kg bw/day | | No effect | 13 weeks (5 days / week) | Rabbit (male) | Read-across |
| Inhalation (vapours) | NOEL | OECD 453 | 300 ppm | | No effect | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across |

butan-1-ol

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|------------|--------------------------|------------------|------------------------|-----------------------------------|------------------------------------|---------------------|---------------------|
| Oral (stomach tube) | NOAEL | Subchronic toxicity test | 125 mg/kg bw/day | | No effect | 13 weeks (daily) | Rat (male / female) | Experimental value |
| Oral (stomach tube) | LOAEL | Subchronic toxicity test | 500 mg/kg bw/day | Central nervous system | Central nervous system depression | 13 weeks (daily) | Rat (male / female) | Experimental value |
| Skin | Dose level | Subacute toxicity test | 100 % | Skin | Irritation | 3 week(s) | Rabbit | Experimental value |
| Inhalation (vapours) | NOAEL | EPA OTS 798.2450 | 500 ppm | | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value |
| Inhalation (vapours) | Dose level | EPA OTS 798.2450 | 1500 ppm | Central nervous system | Drowsiness, dizziness | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value |

trizinc bis(orthophosphate)

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-------------------|------------|------------------------|---------------------------|-------|--------------------------|-------------------|---------------------|---------------------|
| Oral (diet) | NOAEL | OECD 408 | 31.52 mg/kg bw/day | | No effect | 13 weeks (daily) | Rat (male / female) | Read-across |
| Dermal | | | | | | | | Data waiving |
| Inhalation | Dose level | Subacute toxicity test | 4.6 mg/m ³ air | Lungs | Impairment/d egeneration | 6 days (3h / day) | Guinea pig (male) | Read-across |

propan-2-ol

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|------------|------------------------|----------|------------------------|-----------------------|-------------------------------------|---------------------|---------------------|
| Oral | | | | | | | | Data waiving |
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | NOAEC | OECD 451 | 5000 ppm | | No effect | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value |
| Inhalation (vapours) | Dose level | Equivalent to OECD 403 | 5000 ppm | Central nervous system | Drowsiness, dizziness | 6 h | Rat (male / female) | Experimental value |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|---------------------|-----------|----------|---------------------|-------|-----------|---------------|---------------------|---------------------|
| Oral (stomach tube) | NOAEL | OECD 408 | > 1000 mg/kg bw/day | | No effect | 90 day(s) | Rat (male / female) | Experimental value |
| Dermal | | | | | | | | Data waiving |

Conclusion

May cause drowsiness or dizziness.
Not classified for subchronic toxicity

Mutagenicity (in vitro)

NOVAFILLER

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

| Result | Method | Test substrate | Effect | Value determination | Remark |
|----------|------------------------|--------------------------|-----------|---------------------|--------|
| Negative | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value | |

n-butyl acetate

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|--------------------------|--------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | | Experimental value | |

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14 / 26

NOVAFILLER

2-methoxy-1-methylethyl acetate

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|--------------------------|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value | |

butan-1-ol

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|----------|--|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | OECD 476 | Chinese hamster lung fibroblasts (V79) | No effect | Experimental value | |

trizinc bis(orthophosphate)

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|-------------------|--------------------------|--------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | EU Method B.13/14 | Bacteria (S.typhimurium) | | Read-across | |

propan-2-ol

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

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|----------|-----------------------------|--------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | OECD 473 | Chinese hamster ovary (CHO) | | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | OECD 471 | Bacteria (S.typhimurium) | | Experimental value | |

Mutagenicity (in vivo)

NOVAFILLER

No (test) data on the mixture available

Judgement is based on the relevant ingredients

acetone

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------------------------------|-------------------|---------------|-----------------------|-------|---------------------|
| Negative (Oral (drinking water)) | Micronucleus test | 13 week(s) | Mouse (male / female) | | Literature |

n-butyl acetate

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|--------------------------------|----------|---------------|-----------------------|-------|---------------------|
| Negative (Oral (stomach tube)) | OECD 474 | | Mouse (male / female) | | Read-across |

butan-1-ol

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|--------------------------------|----------|---------------|-----------------------|-------|---------------------|
| Negative (Oral (stomach tube)) | OECD 474 | | Mouse (male / female) | | Experimental value |

trizinc bis(orthophosphate)

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------------------------|-------------------|----------------------------|-----------------------|-------|---------------------|
| Negative (Intraperitoneal) | Micronucleus test | 2 dose(s)/24-hour interval | Mouse (male / female) | | Read-across |

propan-2-ol

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------------------------|------------------------|---------------|-----------------------|-------|---------------------|
| Negative (Intraperitoneal) | Equivalent to OECD 474 | | Mouse (male / female) | | Experimental value |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|--------------------------------|----------|---------------|-----------------------|-------|---------------------|
| Negative (Oral (stomach tube)) | OECD 474 | | Mouse (male / female) | | Experimental value |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

NOVAFILLER

No (test) data on the mixture available

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Product number: 51293

15 / 26

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Judgement is based on the relevant ingredients
acetone

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|-------------------|-----------|-----------------------------|-------|---------------------------|----------------|------------------------|-------|---------------------|
| Dermal | NOEL | Carcinogenic toxicity study | 79 mg | 51 weeks (3 times / week) | Mouse (female) | No carcinogenic effect | | Literature |

2-methoxy-1-methylethyl acetate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|-----------|----------|----------|-------------------------------------|---------------------|------------------------|-------|---------------------|
| Inhalation (vapours) | NOEL | OECD 453 | 3000 ppm | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | No carcinogenic effect | | Read-across |

trizinc bis(orthophosphate)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|-----------------------|-----------|-----------------------------|----------------------|---------------|-----------------------|------------------------|-------|---------------------|
| Oral (drinking water) | NOAEL | Carcinogenic toxicity study | > 22000 mg/kg bw/day | 52 week(s) | Mouse (male / female) | No carcinogenic effect | | Read-across |

propan-2-ol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|-----------|----------|----------|-------------------------------------|---------------------|------------------------|-------|---------------------|
| Inhalation (vapours) | NOEL | OECD 451 | 5000 ppm | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | No carcinogenic effect | | Experimental value |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|-------------------|-----------|-----------------------------|-------------------------|-------------------------------------|---------------------|------------------------|-------|---------------------|
| Inhalation (dust) | NOAEC | OECD 453 | 5 mg/m ³ air | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | No carcinogenic effect | Lungs | Experimental value |
| Oral (diet) | NOEL | Carcinogenic toxicity study | 50000 ppm | 103 weeks (7 days / week) | Rat (male / female) | No carcinogenic effect | | Experimental value |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

NOVAFILLER

No (test) data on the mixture available

Judgement is based on the relevant ingredients
acetone

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|-----------|------------------------|--------------------|----------------------------|------------|-------------------|--------|---------------------|
| Developmental toxicity (Inhalation (aerosol)) | NOAEC | Equivalent to OECD 414 | 2200 ppm | 14 days (gestation, daily) | Rat | No effect | Foetus | Experimental value |
| | LOAEC | Equivalent to OECD 414 | 11000 mg/kg bw/day | 14 days (gestation, daily) | Rat | Fetotoxicity | Foetus | Experimental value |
| Maternal toxicity (Inhalation (aerosol)) | NOAEC | Equivalent to OECD 414 | 2200 ppm | 14 days (gestation, daily) | Rat | No effect | | Experimental value |
| | LOAEC | Equivalent to OECD 414 | 11000 ppm | 14 days (gestation, daily) | Rat | Maternal toxicity | | Experimental value |
| Effects on fertility (Oral (drinking water)) | NOAEL | | 900 mg/kg bw/day | 13 week(s) | Rat (male) | No effect | | Literature |

n-butyl acetate

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|-----------|------------------------|----------|---------------|---------------------|-------------------|-------|---------------------|
| Developmental toxicity (Inhalation (vapours)) | LOAEC | Equivalent to OECD 414 | 1500 ppm | | Rat | Fetotoxicity | | Experimental value |
| Maternal toxicity (Inhalation (vapours)) | LOAEC | Equivalent to OECD 414 | 1500 ppm | | Rat | Maternal toxicity | | Experimental value |
| Effects on fertility (Inhalation (vapours)) | NOAEC | OECD 416 | 2000 ppm | > 90 day(s) | Rat (male / female) | No effect | | Experimental value |

2-methoxy-1-methylethyl acetate

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|-----------|------------------------|------------|----------------------------|---------------------|-----------|--------|---------------------|
| Developmental toxicity (Inhalation) | NOAEL | Equivalent to OECD 414 | > 4000 ppm | 10 days (gestation, daily) | Rat | No effect | Foetus | Experimental value |
| Developmental toxicity (Inhalation (vapours)) | | | | | | | | |
| Maternal toxicity (Inhalation (vapours)) | NOAEL | Equivalent to OECD 414 | 1500 ppm | 10 days (gestation, daily) | Rat | No effect | | Experimental value |
| Effects on fertility (Inhalation (vapours)) | NOAEL | OECD 416 | 300 ppm | | Rat (male / female) | No effect | | Read-across |

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16 / 26

NOVAFILLER

butan-1-ol

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|------------------------|-------------------|---------------|---------------------|-----------|--------|---------------------|
| Developmental toxicity (Oral (drinking water)) | NOAEL | Equivalent to OECD 414 | 1454 mg/kg bw/day | 21 day(s) | Rat | No effect | Foetus | Experimental value |
| Maternal toxicity (Oral (drinking water)) | NOAEL | Equivalent to OECD 414 | 1454 mg/kg bw/day | 21 day(s) | Rat | No effect | | Experimental value |
| Effects on fertility (Inhalation (vapours)) | NOAEC | OECD 416 | 2000 ppm | | Rat (male / female) | No effect | | Experimental value |

trizinc bis(orthophosphate)

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|------------|------------------------------|-------------------|----------------------------|---------------------|-----------|-------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | Developmental toxicity study | 42.5 mg/kg bw/day | 10 day(s) | Rat (female) | No effect | | Read-across |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | Developmental toxicity study | 42.5 mg/kg bw/day | 10 days (gestation, daily) | Rat (female) | No effect | | Read-across |
| Effects on fertility (Oral (stomach tube)) | NOAEL (F1) | Equivalent to OECD 416 | 15 mg/kg bw/day | | Rat (male / female) | No effect | | Read-across |

propan-2-ol

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|------------------------|------------------|------------------------|---------------------|-----------|--------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | Equivalent to OECD 414 | 400 mg/kg bw/day | 10 day(s) | Rat | No effect | Foetus | Experimental value |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | Equivalent to OECD 414 | 400 mg/kg bw/day | 10 day(s) | Rat | No effect | | Experimental value |
| Effects on fertility (Oral (drinking water)) | NOAEL | Equivalent to OECD 415 | 853 mg/kg bw/day | 21 day(s) - 70 day (s) | Rat (male / female) | No effect | | Experimental value |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|----------|-------------------|-------------------------|---------|-----------|-------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 1000 mg/kg bw/day | 2 weeks (7 days / week) | Rat | No effect | | Experimental value |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 1000 mg/kg bw/day | 2 weeks (7 days / week) | Rat | No effect | | Experimental value |

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

NOVAFILLER

Classification is based on the relevant ingredients

acetone

| Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-----------|--------|-------|-------|--------------------------|---------------|---------|--------------------------|
| | | | Skin | Skin dryness or cracking | | | Literature study Skin |

n-butyl acetate

| Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-----------|------------------|----------|-------|-----------------------|---------------|---------------------|---------------------|
| NOEC | EPA OTS 798.6050 | 1500 ppm | | Hypoactivity | 6 h | Rat (male / female) | Experimental value |
| NOAEC | EPA OTS 798.6050 | 500 ppm | | no neurotoxic effects | 13 week(s) | Rat (male / female) | Experimental value |

Conclusion

Repeated exposure may cause skin dryness or cracking.

Chronic effects from short and long-term exposure

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No effects known.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

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No (test) data on the mixture available

Classification is based on the relevant ingredients

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17 / 26

NOVAFILLER

acetone

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|-----------------------|-----------|---------------------|---------------------|------------------|--|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | 6210 mg/l - 8120 mg/l | 96 h | Pimephales promelas | Flow-through system | Fresh water | Experimental value; Measured concentration |
| Acute toxicity crustacea | LC50 | | 8800 mg/l | 48 h | Daphnia pulex | Static system | Fresh water | Experimental value; Nominal concentration |
| Toxicity algae and other aquatic plants | NOEC | | 530 mg/l | | Algae | | Fresh water | |
| Long-term toxicity aquatic crustacea | NOEC | Equivalent to OECD 211 | 2212 mg/l | 28 day(s) | Daphnia magna | Flow-through system | Fresh water | Experimental value |

n-butyl acetate

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|-----------|-----------|---------------------------------|---------------------|------------------|--------------------------------------|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | 18 mg/l | 96 h | Pimephales promelas | Flow-through system | Fresh water | Experimental value; Lethal |
| Acute toxicity crustacea | EC50 | Equivalent to OECD 202 | 44 mg/l | 48 h | Daphnia sp. | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 397 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Read-across; GLP |
| | NOEC | OECD 201 | 196 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Read-across; Growth rate |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | 23.2 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Read-across; Reproduction |
| Toxicity aquatic micro-organisms | IC50 | TETRATOX assay | 356 mg/l | 40 h | Tetrahymena pyriformis | Static system | Fresh water | Experimental value; Growth |

| | Parameter | Method | Value | Duration | Species | Value determination |
|-----------------------------|-----------|------------------------|----------------------|-----------|----------------|---------------------|
| Toxicity terrestrial plants | EC50 | Equivalent to OECD 208 | > 1000 mg/kg soil dw | 14 day(s) | Lactuca sativa | Experimental value |

2-methoxy-1-methylethyl acetate

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|---------------------|------------|---------------------------------|---------------------|------------------|---|
| Acute toxicity fishes | LC50 | OECD 203 | 100 mg/l - 180 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EC50 | EU Method C.2 | > 500 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | > 1000 mg/l | 96 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Nominal concentration |
| | NOEC | OECD 201 | ≥ 1000 mg/l | 96 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity fish | NOEC | OECD 204 | 47.5 mg/l | 14 day(s) | Oryzias latipes | Flow-through system | Fresh water | Experimental value; Behaviour |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | ≥ 100 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value; Reproduction |
| Toxicity aquatic micro-organisms | EC10 | Equivalent to OECD 209 | > 1000 mg/l | 30 minutes | Activated sludge | Static system | Fresh water | Experimental value; Respiration |

butan-1-ol

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|-------------|-----------|-----------|---------------------------------|--------------------|------------------|----------------------------------|
| Acute toxicity fishes | LC50 | OECD 203 | 1376 mg/l | 96 h | Pimephales promelas | Static system | Fresh water | Experimental value; GLP |
| Acute toxicity crustacea | EC50 | OECD 202 | 1328 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 225 mg/l | 96 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; GLP |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | 4.1 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value; Reproduction |
| Toxicity aquatic micro-organisms | EC50 | DIN 38412-8 | 4390 mg/l | 17 h | Pseudomonas putida | Static system | Fresh water | Experimental value; Growth |

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18 / 26

NOVAFILLER

trizinc bis(orthophosphate)

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------|------------|-----------|---------------------------------|---------------------|------------------|---|
| Acute toxicity fishes | LC50 | ASTM E729-88 | 0.169 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Read-across; Lethal |
| Acute toxicity crustacea | EC50 | EPA 600/4-85/013 | 0.86 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Read-across; GLP |
| Toxicity algae and other aquatic plants | IC50 | OECD 201 | 0.136 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| | NOEC | OECD 201 | 0.024 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity fish | NOEC | OECD 215 | 0.199 mg/l | 30 day(s) | Oncorhynchus mykiss | Flow-through system | Fresh water | Read-across; Lethal |
| Long-term toxicity aquatic crustacea | NOEC | | 0.035 mg/l | 3 week(s) | Daphnia magna | Semi-static system | Fresh water | Read-across; Reproduction |
| Toxicity aquatic micro-organisms | IC50 | ISO 9509:2006 | 0.35 mg/l | 4 h | Activated sludge | Static system | Fresh water | Experimental value; Nominal concentration |

propan-2-ol

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|--------------------|---------------------------|------------------------|-----------|-------------------------|---------------------|------------------|--------------------------------------|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | 9640 mg/l - 10000 mg/l | 96 h | Pimephales promelas | Flow-through system | Fresh water | Experimental value; Lethal |
| Acute toxicity crustacea | LC50 | Equivalent to OECD 202 | > 10000 mg/l | 24 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | Toxicity threshold | | 1800 mg/l | 7 day(s) | Scenedesmus quadricauda | Static system | Fresh water | Experimental value; Toxicity test |
| Long-term toxicity fish | | | | | | | | Data waiving |
| Long-term toxicity aquatic crustacea | NOEC | | 2344 µmol/l | 16 day(s) | Daphnia magna | | Fresh water | Experimental value; Growth |
| Toxicity aquatic micro-organisms | Toxicity threshold | Equivalent to DIN 38412/8 | 1050 mg/l | 16 h | Pseudomonas putida | Static system | Fresh water | Experimental value; Toxicity test |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|-------------|----------|---------------------------------|---------------|------------------|---------------------------------|
| Acute toxicity fishes | LC50 | | > 1000 mg/l | | Pisces | | Fresh water | |
| Acute toxicity crustacea | EC50 | | > 1000 mg/l | | Invertebrata | | Fresh water | |
| Toxicity algae and other aquatic plants | EC50 | OECD 201 | > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| | NOEC | OECD 201 | ≥ 100 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |

Conclusion

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

acetone

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------|-----------|---------------------|
| OECD 301B | 90.9 % | 28 day(s) | Experimental value |

n-butyl acetate

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301D | 83 %; Oxygen consumption | 28 day(s) | Experimental value |

2-methoxy-1-methylethyl acetate

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301F | 83 %; Oxygen consumption | 28 day(s) | Experimental value |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|----------|------------------------|---------------------|
| AOPWIN v1.92 | 10.818 h | 1.5E6 /cm ³ | Calculated value |

Biodegradation soil

| Method | Value | Duration | Value determination |
|-------------------------|-------------|----------|---------------------|
| Equivalent to OECD 304A | > 57 %; GLP | 1 day(s) | Experimental value |

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19 / 26

NOVAFILLER

butan-1-ol

Biodegradation water

| Method | Value | Duration | Value determination |
|--------|--------------------------|-----------|---------------------|
| APHA | 92 %; Oxygen consumption | 20 day(s) | Experimental value |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|----------|------------------------|---------------------|
| AOPWIN v1.92 | 18.629 h | 1.5E6 /cm ³ | Calculated value |

propan-2-ol

Biodegradation water

| Method | Value | Duration | Value determination |
|---------------|--------------------------|----------|---------------------|
| EU Method C.5 | 53 %; Oxygen consumption | 5 day(s) | Experimental value |

Conclusion

Water

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

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Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------------------------|-------|-------------|---------------------|
| | Not applicable (mixture) | | | |

acetone

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| | | -0.23 | | Test data |

n-butyl acetate

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 117 | | 2.3 | 25 °C | Experimental value |

2-methoxy-1-methylethyl acetate

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|------------------------|--------|-------|-------------|---------------------|
| Equivalent to OECD 117 | | 1.2 | 20 °C | Experimental value |

butan-1-ol

BCF other aquatic organisms

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------------|--------------------------|----------|---------|---------------------|
| BCF | BCFBAF v3.01 | 3.162 l/kg; Fresh weight | | | Calculated value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 117 | | 1 | 25 °C | Experimental value |

trizinc bis(orthophosphate)

BCF other aquatic organisms

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|---------------------------|-----------|--------------|---------------------|
| BCF | | 116 - 60960; Fresh weight | 21 day(s) | Gammarus sp. | Read-across |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|----------------------------|-------|-------------|---------------------|
| | Not applicable (inorganic) | | | |

propan-2-ol

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|-----------------------------|
| | | 0.05 | 25 °C | Weight of evidence approach |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Log Kow

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

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

acetone

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|---------------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 0.374 - 0.988 | Calculated value |

NOVAFILLER

n-butyl acetate

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|---------------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 1.268 - 1.844 | Calculated value |

2-methoxy-1-methylethyl acetate

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|---------------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 0.602 - 1.079 | Calculated value |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level III | 10.22 % | 0 % | 0.02 % | 0.03 % | 89.73 % | Calculated value |

butan-1-ol

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|-------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 0.54 | Calculated value |

Conclusion

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

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

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Greenhouse gases

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)

Groundwater

Groundwater pollutant

acetone

Groundwater

Groundwater pollutant

n-butyl acetate

Groundwater

Groundwater pollutant

2-methoxy-1-methylethyl acetate

Groundwater

Groundwater pollutant

butan-1-ol

Groundwater

Groundwater pollutant

trizinc bis(orthophosphate)

Groundwater

Groundwater pollutant

propan-2-ol

Groundwater

Groundwater 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

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

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

08 01 11* (wastes from MFSU and removal of paint and varnish: waste paint and varnish containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

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Product number: 51293

21 / 26

NOVAFILLER

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Should not be landfilled with household waste. Specific treatment. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

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

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

| | | |
|------------------------------------|--|--|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols |
| 14.3. Transport hazard class(es) | Hazard identification number | |
| | Class | 2 |
| | Classification code | 5F |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 190 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 625 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Rail (RID)

| | | |
|------------------------------------|--|--|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols |
| 14.3. Transport hazard class(es) | Hazard identification number | 23 |
| | Class | 2 |
| | Classification code | 5F |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 190 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 625 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Inland waterways (ADN)

| | | |
|------------------------------------|--|----------|
| 14.1. UN number | UN number | 1950 |
| 14.2. UN proper shipping name | Proper shipping name | Aerosols |
| 14.3. Transport hazard class(es) | Class | 2 |
| | Classification code | 5F |
| 14.4. Packing group | Packing group | |
| | Labels | 2.1 |
| 14.5. Environmental hazards | Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | Special provisions | 190 |

Reason for revision: 3.2; 9; 12; 15

Publication date: 2011-07-08

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Revision number: 0300

Product number: 51293

22 / 26

NOVAFILLER

| | |
|--------------------|--|
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 625 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Sea (IMDG/IMSBC)

| | |
|---|--|
| 14.1. UN number | |
| UN number | 1950 |
| 14.2. UN proper shipping name | |
| Proper shipping name | aerosols |
| 14.3. Transport hazard class(es) | |
| Class | 2.1 |
| 14.4. Packing group | |
| Packing group | |
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Marine pollutant | - |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | 190 |
| Special provisions | 277 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 381 |
| Special provisions | 63 |
| Special provisions | 959 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |
| 14.7. Maritime transport in bulk according to IMO instruments | |
| Annex II of MARPOL 73/78 | Not applicable |

Air (ICAO-TI/IATA-DGR)

| | |
|--|---------------------|
| 14.1. UN number | |
| UN number | 1950 |
| 14.2. UN proper shipping name | |
| Proper shipping name | Aerosols, flammable |
| 14.3. Transport hazard class(es) | |
| Class | 2.1 |
| 14.4. Packing group | |
| Packing group | |
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | A145 |
| Special provisions | A167 |
| Special provisions | A802 |
| Passenger and cargo transport | |
| Limited quantities: maximum net quantity per packaging | 30 kg G |

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 |
|-------------|--------|
| 79.58 % | |
| 677.6 g/l | |

Indicative occupational exposure limit values (Directive 98/24/EC, 2000/39/EC and 2009/161/EU)

2-methoxy-1-methylethyl acetate

| Product name | Skin resorption |
|--------------------------------|-----------------|
| 2-Methoxy-1-methylethylacetate | Skin |

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.

Reason for revision: 3.2; 9; 12; 15

Publication date: 2011-07-08

Date of revision: 2020-11-25

Revision number: 0300

Product number: 51293

23 / 26

NOVAFILLER

| | Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|--|---|---|
| <ul style="list-style-type: none"> · acetone · n-butyl acetate · 2-methoxy-1-methylethyl acetate · butan-1-ol · propan-2-ol | <p>Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:</p> <p>(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;</p> <p>(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;</p> <p>(c) hazard class 4.1;</p> <p>(d) hazard class 5.1.</p> | <ol style="list-style-type: none"> 1. Shall not be used in: <ul style="list-style-type: none"> — 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: <ul style="list-style-type: none"> — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: <ol style="list-style-type: none"> a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are 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 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 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 H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' |
| <ul style="list-style-type: none"> · acetone · n-butyl acetate · 2-methoxy-1-methylethyl acetate · butan-1-ol · propan-2-ol | <p>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> | <ol style="list-style-type: none"> 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: <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. 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>"For professional users only".</p> 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

NOVAFILLER

No data available

2-methoxy-1-methylethyl acetate

| | |
|-----------------|--|
| Résorption peau | Acétate de 2-(1-méthoxy)propyle; D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. |
|-----------------|--|

butan-1-ol

| | |
|-----------------|---|
| Résorption peau | Alcool n-butylique; D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. |
|-----------------|---|

National legislation The Netherlands

NOVAFILLER

| | |
|----------------------|---|
| Waterbezwaarlijkheid | Z (2); Algemene Beoordelingsmethodiek (ABM) |
|----------------------|---|

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| | |
|---|---|
| SZW - Lijst van kankerverwekkende stoffen | Als kankerverwekkende stof ingedeeld in categorie 1A of 1B als bedoeld in bijlage I van de Verordening (EG) nr. 1272/2008 van het Europees parlement en de Raad van 16 december 2008; Listed in SZW-list of carcinogenic substances |
|---|---|

National legislation France

NOVAFILLER

No data available

Reason for revision: 3.2; 9; 12; 15

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Date of revision: 2020-11-25

Revision number: 0300

Product number: 51293

24 / 26

NOVAFILLER

2-methoxy-1-methylethyl acetate

| | |
|----------------------------------|---|
| Risque de pénétration percutanée | Acétate de 2-méthoxy-1-méthyléthyle; PP |
|----------------------------------|---|

National legislation Germany

NOVAFILLER

| | |
|-----|--|
| WGK | 1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |
|-----|--|

acetone

| | |
|---------------------------------------|---|
| TA-Luft | 5.2.5 |
| TRGS900 - Risiko der Fruchtschädigung | Aceton; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |

n-butyl acetate

| | |
|---------------------------------------|--|
| TA-Luft | 5.2.5/I |
| TRGS900 - Risiko der Fruchtschädigung | n-Butylacetat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |

2-methoxy-1-methylethyl acetate

| | |
|---------------------------------------|--|
| TA-Luft | 5.2.5 |
| TRGS900 - Risiko der Fruchtschädigung | 2-Methoxy-1-methylethylacetat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |

butan-1-ol

| | |
|---------------------------------------|---|
| TA-Luft | 5.2.5 |
| TRGS900 - Risiko der Fruchtschädigung | Butan-1-ol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |

trizinc bis(orthophosphate)

| | |
|---------|-------|
| TA-Luft | 5.2.1 |
|---------|-------|

propan-2-ol

| | |
|---------------------------------------|--|
| TA-Luft | 5.2.5 |
| TRGS900 - Risiko der Fruchtschädigung | Propan-2-ol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| | |
|---------|-------|
| TA-Luft | 5.2.1 |
|---------|-------|

National legislation United Kingdom

NOVAFILLER

No data available

2-methoxy-1-methylethyl acetate

| | |
|-----------------|-----------------------------|
| Skin absorption | 1-Methoxypropyl acetate; Sk |
|-----------------|-----------------------------|

butan-1-ol

| | |
|-----------------|----------------|
| Skin absorption | Butan-1-ol; Sk |
|-----------------|----------------|

Other relevant data

NOVAFILLER

No data available

acetone

| | |
|------------------|-------------|
| TLV - Carcinogen | Acetone; A4 |
|------------------|-------------|

propan-2-ol

| | |
|-----------------------|----------------|
| IARC - classification | 3; Isopropanol |
| TLV - Carcinogen | 2-propanol; A4 |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| | |
|-----------------------|----------------------|
| IARC - classification | 2B; Titanium dioxide |
| TLV - Carcinogen | Titanium dioxide; A4 |

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

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

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

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Product number: 51293

25 / 26

NOVAFILLER

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

| | |
|--------------|--|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC50 | Effect Concentration 50 % |
| ERC50 | EC50 in terms of reduction of growth rate |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| NOAEL | No Observed Adverse Effect Level |
| NOEC | No Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent, Bioaccumulative & Toxic |
| PNEC | Predicted No Effect Concentration |
| STP | Sludge Treatment Process |
| vPvB | very Persistent & very Bioaccumulative |

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