



DRIVING SURFACE PERFECTION

S2021 UHS HIGH BUILD PRIMER WHITE (5:1)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SDS Ref. (EU): S2021W

Date of issue: 07/08/2019 Revision date: 07/08/2019 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
 Trade name : S2021 UHS HIGH BUILD PRIMER WHITE (5:1)
 Product code : S2021W/1, S2021W/3, S2021W/5
 Product group : 2K Primer

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
 For professional use only
 Function or use category : Primer

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

U-POL LIMITED
 Denington Road, Wellingborough
 Northants. NN8 2QH - UK
 T +44 (0) 1933 230310
technicalsupport@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number : CHEMTREC - +44 (0) 870 8200418 (24 hrs)

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|--|--|---|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | NHS England, Scotland & Wales | - | Call 111 or a Doctor | In Northern Ireland, contact your local GP or pharmacist during normal hours (www.gpoutofhours.hscni.net) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225
 Serious eye damage/eye irritation, Category 2 H319
 Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411
 Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

GHS09

Signal word (CLP) :

: Danger

Hazard statements (CLP) :

: H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P264 - Wash hands thoroughly after handling.

P280 - Wear face protection, protective clothing, protective gloves.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P391 - Collect spillage.

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|--|
| n-butyl acetate substance with a Community workplace exposure limit | (CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index-No.) 607-025-00-1 (REACH-no) 01-2119485493-29 | 10 - 20 | Flam. Liq. 3, H226 STOT SE 3, H336 |
| 4-methylpentan-2-one; isobutyl methyl ketone | (CAS-No.) 108-10-1 (EC-No.) 203-550-1 (EC Index-No.) 606-004-00-4 (REACH-no) 01-2119473980-30 | 5 - 10 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT SE 3, H335 |
| xylene (Note C) | (CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index-No.) 601-022-00-9 (REACH-no) 01-2119488216-32 | 3 - 5 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 |
| titanium(IV) oxide substance with a Community workplace exposure limit | (CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (REACH-no) 01-2119489379-17 | 3 - 5 | Not classified |
| trizinc bis(orthophosphate) | (CAS-No.) 7779-90-0 (EC-No.) 231-944-3 (EC Index-No.) 030-011-00-6 (REACH-no) 01-2119485044-40 | 3 - 5 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| ethylbenzene | (CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index-No.) 601-023-00-4 (REACH-no) 01-2119489370-35 | 1 - 2.5 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 STOT RE 2, H373 Asp. Tox. 1, H304 |

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

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5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Protective clothing. Gloves.
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product. Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.
Storage temperature : < 25 °C
Storage area : Keep container in a well-ventilated place.
Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| n-butyl acetate (123-86-4) | | |
|----------------------------|--|-------------------------|
| EU | Local name | n-butyl acetate |
| EU | IOELV TWA (mg/m ³) | 241 mg/m ³ |
| EU | IOELV TWA (ppm) | 50 ppm |
| EU | IOELV STEL (mg/m ³) | 723 mg/m ³ |
| EU | IOELV STEL (ppm) | 150 ppm |
| EU | Notes | (Year of adoption 2016) |
| EU | Regulatory reference | SCOEL Recommendations |
| Ireland | Local name | Butyl acetate |
| Ireland | OEL (8 hours ref) (mg/m ³) | 710 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 150 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 950 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 200 ppm |

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| n-butyl acetate (123-86-4) | | |
|----------------------------|-------------------------------|---|
| Ireland | Regulatory reference | Code of Practice for the Chemical Agents Regulations 2018 |
| United Kingdom | Local name | Butyl acetate |
| United Kingdom | WEL TWA (mg/m ³) | 724 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 150 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 966 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 200 ppm |
| United Kingdom | Regulatory reference | EH40/2005 (Third edition, 2018). HSE |

| ethylbenzene (100-41-4) | | |
|-------------------------|--|--|
| EU | Local name | Ethylbenzene |
| EU | IOELV TWA (mg/m ³) | 442 mg/m ³ |
| EU | IOELV TWA (ppm) | 100 ppm |
| EU | IOELV STEL (mg/m ³) | 884 mg/m ³ |
| EU | IOELV STEL (ppm) | 200 ppm |
| EU | Notes | Skin |
| EU | Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Ireland | Local name | Ethylbenzene |
| Ireland | OEL (8 hours ref) (mg/m ³) | 442 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 100 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 884 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 200 ppm |
| Ireland | Notes (IE) | Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values) |
| Ireland | Regulatory reference | Code of Practice for the Chemical Agents Regulations 2018 |
| United Kingdom | Local name | Ethylbenzene |
| United Kingdom | WEL TWA (mg/m ³) | 441 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 100 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 552 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 125 ppm |
| United Kingdom | Remark (WEL) | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| United Kingdom | Regulatory reference | EH40/2005 (Third edition, 2018). HSE |

| 4-methylpentan-2-one; isobutyl methyl ketone (108-10-1) | | |
|---|--|---------------------------------|
| EU | Local name | 4-Methylpentan-2-one |
| EU | IOELV TWA (mg/m ³) | 83 mg/m ³ |
| EU | IOELV TWA (ppm) | 20 ppm |
| EU | IOELV STEL (mg/m ³) | 208 mg/m ³ |
| EU | IOELV STEL (ppm) | 50 ppm |
| EU | Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Ireland | Local name | Methyl isobutyl ketone (MIBK) |
| Ireland | OEL (8 hours ref) (mg/m ³) | 83 mg/m ³ |

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| 4-methylpentan-2-one; isobutyl methyl ketone (108-10-1) | | |
|---|---------------------------------------|--|
| Ireland | OEL (8 hours ref) (ppm) | 20 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 208 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 50 ppm |
| Ireland | Notes (IE) | Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values) |
| Ireland | Regulatory reference | Code of Practice for the Chemical Agents Regulations 2018 |
| United Kingdom | Local name | 4-Methylpentan-2-one |
| United Kingdom | WEL TWA (mg/m ³) | 208 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 50 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 416 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 100 ppm |
| United Kingdom | Remark (WEL) | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| United Kingdom | Regulatory reference | EH40/2005 (Third edition, 2018). HSE |

| xylene (1330-20-7) | | |
|--------------------|--|--|
| EU | Local name | Xylene, mixed isomers, pure |
| EU | IOELV TWA (mg/m ³) | 221 mg/m ³ |
| EU | IOELV TWA (ppm) | 50 ppm |
| EU | IOELV STEL (mg/m ³) | 442 mg/m ³ |
| EU | IOELV STEL (ppm) | 100 ppm |
| EU | Notes | Skin |
| EU | Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Ireland | Local name | Xylene, mixed isomers |
| Ireland | OEL (8 hours ref) (mg/m ³) | 221 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 50 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 442 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 100 ppm |
| Ireland | Notes (IE) | Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values) |
| Ireland | Regulatory reference | Code of Practice for the Chemical Agents Regulations 2018 |
| United Kingdom | Local name | Xylene |
| United Kingdom | WEL TWA (mg/m ³) | 220 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 50 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 441 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 100 ppm |
| United Kingdom | Remark (WEL) | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| United Kingdom | Regulatory reference | EH40/2005 (Third edition, 2018). HSE |

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| titanium(IV) oxide (13463-67-7) | | |
|---------------------------------|--|--|
| EU | Local name | Titanium dioxide |
| EU | Notes | (Ongoing) |
| EU | Regulatory reference | SCOEL Recommendations |
| Ireland | Local name | Titanium dioxide |
| Ireland | OEL (8 hours ref) (mg/m ³) | 10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust |
| Ireland | Regulatory reference | Code of Practice for the Chemical Agents Regulations 2018 |
| United Kingdom | Local name | Titanium dioxide |
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ 4 mg/m ³ |
| United Kingdom | Regulatory reference | EH40/2005 (Third edition, 2018). HSE |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Materials for protective clothing:

Impermeable clothing

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Air-fed respiratory protective equipment should be worn when this product is sprayed

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | : Liquid |
| Appearance | : Viscous. Liquid. |
| Colour | : white. |
| Odour | : aromatic. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : > 35 °C |
| Flash point | : 18 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1.57 g/cm ³ |
| Solubility | : insoluble in water. soluble in most organic solvents. |
| Log Pow | : No data available |

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| | |
|----------------------|-------------------------------|
| Viscosity, kinematic | : 2547.771 mm ² /s |
| Viscosity, dynamic | : 4000 (3500 - 4500) cP |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

| | |
|-------------|-----------|
| VOC content | : 437 g/l |
|-------------|-----------|

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

ethyl 3-ethoxypropionate (763-69-9)

| | |
|---------------------------|---|
| LD50 oral rat | 5000 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | 4076 mg/kg (Rabbit, Dermal) |
| LC50 inhalation rat (ppm) | > 998 ppm (OECD Guideline 403 (Acute Inhalation Toxicity), non-GLP, 6h, rat, male) |

trizinc bis(orthophosphate) (7779-90-0)

| | |
|----------------------------|---|
| LD50 oral rat | > 5000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Experimental value, Oral) |
| LC50 inhalation rat (mg/l) | > 5.41 mg/l/4h (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Read-across, Inhalation (dust)) |

n-butyl acetate (123-86-4)

| | |
|---|--|
| LD50 oral rat | 10760 - 12789 mg/kg bodyweight (Equivalent or similar to OECD 423, Rat, Male/female, Experimental value, Oral) |
| LD50 dermal rabbit | 14112 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male/female, Experimental value, Dermal) |
| LC50 inhalation rat (ppm) | 390 ppm/4h |
| LC50 inhalation rat (Vapours - mg/l/4h) | > 21 mg/l/4h (4 h, OECD Test Guideline 403, rat, vapours) |

calcium isononanoate (53988-05-9)

| | |
|-----------------|---|
| LD50 oral rat | 1160 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Read-across, Oral) |
| LD50 dermal rat | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal) |

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | |
|--------------------|---|
| LD50 oral rat | > 5000 mg/kg (OECD Guideline 401 (Acute Oral Toxicity), rat, male/female) |
| LD50 dermal rabbit | > 5000 mg/kg (OECD Guideline 402 (Acute Dermal Toxicity), rat, male/female) |

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| | |
|----------------------------|---|
| LC50 inhalation rat (mg/l) | > 5000 mg/m ³ (OECD Guideline 403 (Acute Inhalation Toxicity), 8h, rat, male, vapours) |
|----------------------------|---|

dolomite (16389-88-1)

| | |
|---------------|---|
| LD50 oral rat | > 2000 mg/kg (OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), rat, female, Experimental value) |
|---------------|---|

magnesium carbonate (546-93-0)

| | |
|---------------|--|
| LD50 oral rat | > 2000 mg/kg bodyweight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s)) |
|---------------|--|

barium sulfate (7727-43-7)

| | |
|---------------|---|
| LD50 oral rat | > 5000 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral) |
|---------------|---|

silicon dioxide, amorphous (7631-86-9)

| | |
|--------------------|-------------------------------|
| LD50 oral rat | > 10000 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit, Dermal) |

ethylbenzene (100-41-4)

| | |
|----------------------------|---|
| LD50 oral rat | 3500 mg/kg (Rat, Male/female, Experimental value, Oral) |
| LD50 dermal rabbit | 15432 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal) |
| LC50 inhalation rat (mg/l) | 17.8 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours)) |

4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

| | |
|----------------------------|--|
| LD50 oral rat | 2080 mg/kg (Equivalent or similar to OECD 401, Rat, Experimental value, Oral) |
| LD50 dermal rat | >= 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal) |
| LC50 inhalation rat (mg/l) | 8.2 - 16.4 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Experimental value, Inhalation (vapours)) |

dibutyltin dilaurate (77-58-7)

| | |
|-----------------|--|
| LD50 oral rat | 2071 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male/female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value, Dermal, 14 day(s)) |

talca (14807-96-6)

| | |
|---|--|
| LD50 oral rat | > 5000 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg bodyweight |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | > 2.1 mg/l/4h (OECD Guideline 403 (Acute Inhalation Toxicity), rat, male/female, experimental value) |

calcium carbonate (471-34-1)

| | |
|---|--|
| LD50 oral rat | > 2000 mg/kg (OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), rat, female, Experimental value, Oral) |
| LD50 dermal rat | > 2000 mg/kg (OECD Guideline 402 (Acute Dermal Toxicity), rat, male/female, Experimental value) |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | > 3 mg/l/4h (4 h, OECD Guidelines 403 (Acute Toxicity Inhalation), rat, male/female, Experimental value) |

quartz (14808-60-7)

| | |
|---------------|-------------|
| LD50 oral rat | > 500 mg/kg |
|---------------|-------------|

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| xylylene (1330-20-7) | |
|-----------------------------|---|
| LD50 oral rat | 3523 mg/kg bodyweight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Rat, Male, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rat | 12126 mg/kg (Non-GLP, read-across from supporting substance, single dermal dose under occlusion followed by observation for 14 days) |
| LC50 inhalation rat (ppm) | 6700 ppm/4h (EU Method B.2 (Acute Toxicity (Inhalation)), 4h, rat, male) |

| cellulose acetate butyrate (9004-36-8) | |
|---|---------------------------|
| LD50 oral rat | > 3200 mg/kg |
| LD50 dermal | > 1000 mg/kg (Guinea pig) |

| titanium(IV) oxide (13463-67-7) | |
|--|--|
| LD50 oral rat | > 5000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s)) |
| LC50 inhalation rat (mg/l) | > 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s)) |
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

| ethylbenzene (100-41-4) | |
|--------------------------------|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |

| 4-methylpentan-2-one; isobutyl methyl ketone (108-10-1) | |
|--|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |

| xylylene (1330-20-7) | |
|-----------------------------|----------------------|
| IARC group | 3 - Not classifiable |

| titanium(IV) oxide (13463-67-7) | |
|--|--------------------------------------|
| IARC group | 2B - Possibly carcinogenic to humans |

| | |
|------------------------|------------------|
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

| S2021 UHS HIGH BUILD PRIMER WHITE (5:1) | |
|--|-----------------------------|
| Viscosity, kinematic | 2547.771 mm ² /s |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|--------------------------|--|
| Ecology - general | : Toxic to aquatic life with long lasting effects. |
| Acute aquatic toxicity | : Not classified |
| Chronic aquatic toxicity | : Toxic to aquatic life with long lasting effects. |

| trizinc bis(orthophosphate) (7779-90-0) | |
|--|--|
| LC50 fish 1 | 0.169 mg/l (ASTM E729-88, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across, Nominal concentration) |

| n-butyl acetate (123-86-4) | |
|-----------------------------------|--|
| LC50 fish 1 | 18 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value) |
| LC50 fish 2 | 62 mg/l (Leuciscus idus, static system) |

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| | |
|------------------------|--|
| EC50 Daphnia 1 | 44 mg/l (48 h, Daphnia sp., Static system, Fresh water, Experimental value) |
| EC50 72h algae (1) | 674.7 mg/l (Desmodesmus subspicatus, Static system, Fresh water, Experimental value) |
| NOEC chronic crustacea | 23 mg/l |

ethylbenzene (100-41-4)

| | |
|--------------------|--|
| LC50 fish 1 | 4.2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Salmo gairdneri, Semi-static system, Fresh water, Experimental value) |
| EC50 Daphnia 1 | 2.1 (1.8 - 2.4) mg/l (US EPA, 48 h, Daphnia magna, Static system, Fresh water, Experimental value) |
| EC50 72h algae (1) | 5.4 mg/l (US EPA, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers) |

4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

| | |
|--------------------|--|
| LC50 fish 1 | 600 mg/l (96 h, Salmo gairdneri, Fresh water, Literature study) |
| LC50 fish 2 | > 179 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP) |
| EC50 Daphnia 1 | > 200 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| EC50 96h algae (1) | 400 mg/l (Selenastrum capricornutum, Literature study, Growth rate) |

xylene (1330-20-7)

| | |
|--------------------|--|
| LC50 fish 1 | 2.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static renewal, Fresh water, Read-across, Lethal) |
| EC50 72h algae (1) | 2.2 mg/l |
| ErC50 (algae) | 4.36 mg/l (OECD 201: Alga, Growth Inhibition Test, 73 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

titanium(IV) oxide (13463-67-7)

| | |
|---------------|--|
| LC50 fish 1 | 100 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration) |
| ErC50 (algae) | 61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration) |

12.2. Persistence and degradability

trizinc bis(orthophosphate) (7779-90-0)

| | |
|---------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

n-butyl acetate (123-86-4)

| | |
|-------------------------------|------------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
| ThOD | 2.21 g O ₂ /g substance |
| BOD (% of ThOD) | 0.46 |

ethylbenzene (100-41-4)

| | |
|---------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 1.44 g O ₂ /g substance (20d.) |
| Chemical oxygen demand (COD) | 2.1 g O ₂ /g substance |
| ThOD | 3.17 g O ₂ /g substance |

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4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

| | |
|---------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | 2.06 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.16 g O ₂ /g substance |
| ThOD | 2.72 g O ₂ /g substance |
| BOD (% of ThOD) | 0.76 |

xylene (1330-20-7)

| | |
|-------------------------------|--|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
|-------------------------------|--|

titanium(IV) oxide (13463-67-7)

| | |
|---------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Biochemical oxygen demand (BOD) | Not applicable (inorganic) |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

12.3. Bioaccumulative potential

trizinc bis(orthophosphate) (7779-90-0)

| | |
|-------------------------------|--|
| BCF other aquatic organisms 1 | 116 - 60960 (21 day(s), Gammarus sp., Semi-static system, Salt water, Read-across, Fresh weight) |
| Bioaccumulative potential | High potential for bioaccumulation (BCF > 5000). |

n-butyl acetate (123-86-4)

| | |
|---------------------------|--|
| BCF fish 1 | 15.3 (Calculated value) |
| Log Pow | 2.3 (Test data, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

ethylbenzene (100-41-4)

| | |
|---------------------------|---|
| BCF fish 1 | 1 - 2.4 (Other, 6 week(s), Oncorhynchus kisutch, Flow-through system, Salt water, Experimental value) |
| Log Pow | 3.6 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

| | |
|---------------------------|--|
| BCF fish 1 | 2 - 5 (Pisces, Estimated value) |
| Log Pow | 1.9 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

xylene (1330-20-7)

| | |
|---------------------------|--|
| BCF fish 1 | 7.2 - 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Read-across) |
| Log Pow | 3.2 (Read-across, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

titanium(IV) oxide (13463-67-7)

| | |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
|---------------------------|----------------------|

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12.4. Mobility in soil

trizinc bis(orthophosphate) (7779-90-0)

| | |
|----------------|------------------------|
| Ecology - soil | Adsorbs into the soil. |
|----------------|------------------------|

n-butyl acetate (123-86-4)

| | |
|-----------------|--|
| Surface tension | 0.0163 N/m (20 °C) |
| Log Koc | 1.268 - 1.844 (log Koc, SRC PCKOCWIN v2.0, QSAR) |
| Ecology - soil | Low potential for adsorption in soil. |

ethylbenzene (100-41-4)

| | |
|-----------------|--|
| Surface tension | 0.071 N/m (23 °C, 0.0582 g/l, EU Method A.5: Surface tension) |
| Log Koc | 2.71 (log Koc, PCKOCWIN v1.66, QSAR) |
| Ecology - soil | Low potential for adsorption in soil. Toxic to soil organisms. |

4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)

| | |
|-----------------|---|
| Surface tension | 0.024 N/m (20 °C) |
| Log Koc | 2.008 (log Koc, Weight of evidence, Calculated value) |
| Ecology - soil | Low potential for adsorption in soil. |

xylene (1330-20-7)

| | |
|-----------------|---|
| Surface tension | 28.01 - 29.76 mN/m (25 °C) |
| Log Koc | 2.73 (log Koc, Equivalent or similar to OECD 121, Read-across) |
| Ecology - soil | Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation. |

titanium(IV) oxide (13463-67-7)

| | |
|----------------|-------------------------------------|
| Ecology - soil | Low potential for mobility in soil. |
|----------------|-------------------------------------|

12.5. Results of PBT and vPvB assessment

Component

| | |
|---|---|
| ethylbenzene (100-41-4) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| xylene (1330-20-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 4-methylpentan-2-one; isobutyl methyl ketone (108-10-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| n-butyl acetate (123-86-4) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| trizinc bis(orthophosphate) (7779-90-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| titanium(IV) oxide (13463-67-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|------------------------------|---|
| Regional legislation (waste) | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Additional information | : Flammable vapours may accumulate in the container. |

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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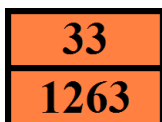
| ADR | IMDG | IATA | ADN | RID |
|--|--|---|---|---|
| 14.1. UN number | | | | |
| 1263 | 1263 | 1263 | 1263 | 1263 |
| 14.2. UN proper shipping name | | | | |
| PAINT | PAINT | Paint | PAINT | PAINT |
| Transport document description | | | | |
| UN 1263 PAINT, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT, 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1263 Paint, 3, II, ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT, 3, II, ENVIRONMENTALLY HAZARDOUS | UN 1263 PAINT, 3, II, ENVIRONMENTALLY HAZARDOUS |
| 14.3. Transport hazard class(es) | | | | |
| 3 | 3 | 3 | 3 | 3 |
| | | | | |
| 14.4. Packing group | | | | |
| II | II | II | II | II |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : Yes | Dangerous for the environment : Yes Marine pollutant : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes |
| No supplementary information available | | | | |

No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
 Special provisions (ADR) : 163, 367, 640D, 650
 Limited quantities (ADR) : 5I
 Excepted quantities (ADR) : E2
 Packing instructions (ADR) : P001, IBC02, R001
 Special packing provisions (ADR) : PP1
 Mixed packing provisions (ADR) : MP19
 Portable tank and bulk container instructions (ADR) : T4
 Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28
 Tank code (ADR) : LGBF
 Vehicle for tank carriage : FL
 Transport category (ADR) : 2
 Special provisions for carriage - Operation (ADR) : S2, S20
 Hazard identification number (Kemler No.) : 33
 Orange plates :



Tunnel restriction code (ADR) : D/E
 EAC code : •3YE

Transport by sea

Special provisions (IMDG) : 163, 367
 Limited quantities (IMDG) : 5 L
 Excepted quantities (IMDG) : E2
 Packing instructions (IMDG) : P001
 Special packing provisions (IMDG) : PP1
 IBC packing instructions (IMDG) : IBC02

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| | |
|------------------------------------|--|
| Tank instructions (IMDG) | : T4 |
| Tank special provisions (IMDG) | : TP1, TP8, TP28 |
| EmS-No. (Fire) | : F-E |
| EmS-No. (Spillage) | : S-E |
| Stowage category (IMDG) | : B |
| Properties and observations (IMDG) | : Miscibility with water depends upon the composition. |

Air transport

| | |
|--|-----------------|
| PCA Excepted quantities (IATA) | : E2 |
| PCA Limited quantities (IATA) | : Y341 |
| PCA limited quantity max net quantity (IATA) | : 1L |
| PCA packing instructions (IATA) | : 353 |
| PCA max net quantity (IATA) | : 5L |
| CAO packing instructions (IATA) | : 364 |
| CAO max net quantity (IATA) | : 60L |
| Special provisions (IATA) | : A3, A72, A192 |
| ERG code (IATA) | : 3L |

Inland waterway transport

| | |
|-----------------------------------|-----------------------|
| Classification code (ADN) | : F1 |
| Special provisions (ADN) | : 163, 367, 640D, 650 |
| Limited quantities (ADN) | : 5 L |
| Excepted quantities (ADN) | : E2 |
| Equipment required (ADN) | : PP, EX, A |
| Ventilation (ADN) | : VE01 |
| Number of blue cones/lights (ADN) | : 1 |

Rail transport

| | |
|---|-----------------------|
| Classification code (RID) | : F1 |
| Special provisions (RID) | : 163, 367, 640D, 650 |
| Limited quantities (RID) | : 5L |
| Excepted quantities (RID) | : E2 |
| Packing instructions (RID) | : P001, IBC02, R001 |
| Special packing provisions (RID) | : PP1 |
| Mixed packing provisions (RID) | : MP19 |
| Portable tank and bulk container instructions (RID) | : T4 |
| Portable tank and bulk container special provisions (RID) | : TP1, TP8, TP28 |
| Tank codes for RID tanks (RID) | : LGBF |
| Transport category (RID) | : 2 |
| Colis express (express parcels) (RID) | : CE7 |
| Hazard identification number (RID) | : 33 |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| | |
|--|--|
| 3(a) 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: 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 | S2021 UHS HIGH BUILD PRIMER WHITE (5:1) ; ethylbenzene ; xylene, mixture of isomers ; isobutyl methyl ketone ; n-butyl acetate |
| 3(b) 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: 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 | S2021 UHS HIGH BUILD PRIMER WHITE (5:1) ; ethylbenzene ; xylene, mixture of isomers ; isobutyl methyl ketone ; n-butyl acetate |
| 3(c) 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: Hazard class 4.1 | S2021 UHS HIGH BUILD PRIMER WHITE (5:1) |

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40. 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 Regulation (EC) No 1272/2008 or not.

S2021 UHS HIGH BUILD PRIMER WHITE (5:1) ; ethylbenzene ; xylene, mixture of isomers ; isobutyl methyl ketone ; n-butyl acetate

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 437 g/l

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

| | |
|----------------------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

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