

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



WIT-PE 510 - 585 ML (Comp. B)

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 25.06.2024 |
| 4.1 | 12.11.2024 | 8236679-00011 | Date of first issue: 13.04.2021 |

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

1.1 Product identifier

Trade name : WIT-PE 510 - 585 ML (Comp. B)

Product code : 5918615585

Unique Formula Identifier (UFI) : 2YA3-30MU-4009-WW4D

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

Use of the Sub-stance/Mixture : Professional use product
Construction material, Dual-component adhesive

Recommended restrictions on use : Not applicable

1.3 Details of the supplier of the safety data sheet

Company : Adolf Wuerth GmbH & Co. KG
Reinhold-Würth-Str. 12-17
74653 Künzelsau

Telephone : +49 794015 0

Telefax : +49 794015 10 00

E-mail address of person responsible for the SDS : isi@wuerth.com

1.4 Emergency telephone number

+49 (0)6132 – 84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|---------------------------------|--|
| Acute toxicity, Category 4 | H302: Harmful if swallowed. |
| Skin corrosion, Sub-category 1A | H314: Causes severe skin burns and eye damage. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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| | | |
|--------------------------|---|--|
| Hazard pictograms | : | |
| Signal word | : | Danger |
| Hazard statements | : | H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. |
| Precautionary statements | : | Prevention: P260 Do not breathe dust or mist. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/ doctor. P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. |

Hazardous components which must be listed on the label:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine
m-phenylenebis(methylamine)
2,4,6-Tris{(Dimethylamino)methyl}phenol
p-Toluenesulphonic acid (containing a maximum of 5 % H₂SO₄)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Amines

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|---|--|---|--------------------------|
| 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine | 25513-64-8 247-063-2 01-2119560598-25 | Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 EUH071 Acute toxicity estimate Acute oral toxicity: 910 mg/kg | >= 30 - < 50 |
| m-phenylenebis(methylamine) | 1477-55-0 216-032-5 01-2119480150-50 | Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 EUH071 Acute toxicity estimate Acute inhalation toxicity (dust/mist): 1,34 mg/l | >= 5 - < 10 |
| 2,4,6-Tris{(Dimethylamino)methyl}phenol | 90-72-2 202-013-9 603-069-00-0 01-2119560597-27 | Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 EUH071 Acute toxicity estimate Acute oral toxicity: 1.653 mg/kg | >= 5 - < 10 |
| p-Toluenesulphonic acid (containing a maximum of 5 % H2SO4) | 104-15-4 203-180-0 016-030-00-2 | Skin Corr. 1C; H314 Eye Dam. 1; H318 EUH071 | >= 3 - < 5 |

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| | | | |
|----------------------------|-------------------------|--|-------------|
| | 01-2119538811-39 | specific concentration limit STOT SE 3; H335 >= 20 % | |
| Quartz (SiO ₂) | 14808-60-7 238-878-4 | STOT RE 1; H372 (Lungs) | >= 1 - < 10 |

For explanation of abbreviations see section 16.

Alternative CAS Numbers for some regions

| Chemical name | Alternative CAS Number(s) |
|---|---------------------------|
| 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine | 25620-58-0 |

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Get medical attention immediately.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention immediately.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.
If vomiting occurs have person lean forward.
Call a physician or poison control centre immediately.
Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person.

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4.2 Most important symptoms and effects, both acute and delayed

Risks : Harmful if swallowed.
May cause an allergic skin reaction.
Causes serious eye damage.
Causes severe burns.

Causes digestive tract burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)
Sulphur oxides
Silicon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

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6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.
Avoid breathing dust, fume, gas, mist, vapours or spray.
Do not breathe dust or mist.
Do not swallow.
Do not get in eyes.
Wash skin thoroughly after handling.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Keep container tightly closed.
Do not eat, drink or smoke when using this product.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before re-use.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:
Strong oxidizing agents
Self-reactive substances and mixtures
Organic peroxides
Explosives

Storage class (TRGS 510) : 8A

Recommended storage temperature : 5 - 35 °C

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|--|-------------|--|------------------------------|-------------|
| Silicon, amorphous | 112945-52-5 | AGW (Inhalable fraction) | 4 mg/m ³ (Silica) | DE TRGS 900 |
| Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | | |
| | | MAK (measured as the alveolate fraction) | 0,02 mg/m ³ | DE DFG MAK |
| Peak-limit: excursion factor (category): 8; II | | | | |
| Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed | | | | |
| Quartz (SiO ₂) | 14808-60-7 | TWA (Respirable dust) | 0,1 mg/m ³ | 2004/37/EC |
| Further information: Carcinogens or mutagens | | | | |

This substance(s) is not bioavailable and therefore does not contribute to a dust inhalation hazard.

Quartz (SiO₂)

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|---------|-----------------|----------------------------|-----------------------|
| m-phe- | Workers | Inhalation | Long-term systemic effects | 1,2 mg/m ³ |

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| nylenebis(methylamine) | | | | |
| | Workers | Inhalation | Long-term local effects | 0,2 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 0,33 mg/kg bw/day |
| 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine | Consumers | Ingestion | Long-term systemic effects | 0,05 mg/kg bw/day |
| p-Toluenesulphonic acid (containing a maximum of 5 % H ₂ SO ₄) | Workers | Inhalation | Long-term systemic effects | 53,6 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 7,6 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 8,7 mg/m ³ |
| | Consumers | Skin contact | Long-term systemic effects | 2,5 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 2,5 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

| Substance name | Environmental Compartment | Value |
|---|---------------------------|-------------------------------|
| 2,4,6-Tris{(Dimethylamino)methyl}phenol | Fresh water | 0,084 mg/l |
| | Marine water | 0,0084 mg/l |
| | Sewage treatment plant | 0,2 mg/l |
| | Intermittent use/release | 0,84 mg/l |
| m-phenylenebis(methylamine) | Fresh water | 0,094 mg/l |
| | Marine sediment | 0,0094 mg/l |
| | Intermittent use/release | 0,152 mg/l |
| | Sewage treatment plant | 10 mg/l |
| | Fresh water sediment | 0,43 mg/kg |
| | Marine sediment | 0,043 mg/kg |
| 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine | Soil | 0,045 mg/kg |
| | Fresh water sediment | 0,43 mg/kg |
| | Fresh water | 0,102 mg/l |
| | Marine water | 0,01 mg/l |
| | Freshwater - intermittent | 0,315 mg/l |
| | Sewage treatment plant | 72 mg/l |
| p-Toluenesulphonic acid (containing a maximum of 5 % H ₂ SO ₄) | Fresh water sediment | 0,622 mg/kg dry weight (d.w.) |
| | Marine sediment | 0,062 mg/kg dry weight (d.w.) |
| | Soil | 10 mg/kg dry weight (d.w.) |
| | Fresh water | 0,073 mg/l |

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| | | |
|--|---------------------------|---------------------------------|
| | Freshwater - intermittent | 0,73 mg/l |
| | Marine water | 0,0073 mg/l |
| | Sewage treatment plant | 58 mg/l |
| | Fresh water sediment | 0,0577 mg/kg dry weight (d.w.) |
| | Marine sediment | 0,00577 mg/kg dry weight (d.w.) |
| | Soil | 0,016 mg/kg dry weight (d.w.) |

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.

Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield
Equipment should conform to DIN EN 166

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : 0,7 mm
Directive : Equipment should conform to DIN EN 374

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Equipment should conform to DIN EN 14387

Filter type : Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : paste

Colour : grey

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red

Odour : characteristic

Odour Threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flammability (solid, gas) : Not classified as a flammability hazard

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

pH : substance/mixture is non-soluble (in water)

Viscosity
Viscosity, kinematic : Not applicable

Solubility(ies)
Water solubility : insoluble

Partition coefficient: n-octanol/water : Not applicable

Vapour pressure : Not applicable

Density : 1,42 g/cm³ (20 °C)

Relative vapour density : Not applicable

Particle characteristics
Particle size : No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

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Evaporation rate : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Information on likely routes of exposure : Skin contact
Ingestion
Eye contact

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 1.598 mg/kg
Method: Calculation method

Acute inhalation toxicity : Assessment: Not corrosive to the respiratory tract

Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

Acute oral toxicity : LD50 (Rat): 910 mg/kg

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Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

m-phenylenebis(methylamine):

Acute oral toxicity : LD50 (Rat): > 200 - < 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1,34 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rat): > 3.100 mg/kg

2,4,6-Tris((Dimethylamino)methyl)phenol:

Acute oral toxicity : LD50 (Rat): 1.653 mg/kg

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

p-Toluenesulphonic acid (containing a maximum of 5 % H2SO4):

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Remarks: Based on data from similar materials

Quartz (SiO2):

Acute oral toxicity : LD50 (Rat): > 22.500 mg/kg

Skin corrosion/irritation

Causes severe burns.

Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 3 minutes or less of exposure

m-phenylenebis(methylamine):

Species : Rat
Result : Corrosive after 3 minutes to 1 hour of exposure

2,4,6-Tris((Dimethylamino)methyl)phenol:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 1 to 4 hours of exposure

p-Toluenesulphonic acid (containing a maximum of 5 % H2SO4):

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Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 1 to 4 hours of exposure

Quartz (SiO₂):

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : Based on data from similar materials

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

m-phenylenebis(methylamine):

Result : Irreversible effects on the eye
Remarks : Based on skin corrosivity.

2,4,6-Tris((Dimethylamino)methyl)phenol:

Species : Rabbit
Result : Irreversible effects on the eye

p-Toluenesulphonic acid (containing a maximum of 5 % H₂SO₄):

Result : Irreversible effects on the eye
Remarks : Based on skin corrosivity.

Quartz (SiO₂):

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation
Remarks : Based on data from similar materials

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

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Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : positive

Assessment : Probability or evidence of high skin sensitisation rate in humans

m-phenylenebis(methylamine):

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : positive

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans

2,4,6-Tris((Dimethylamino)methyl)phenol:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : equivocal

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Result : negative

p-Toluenesulphonic acid (containing a maximum of 5 % H₂SO₄):

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : Regulation (EC) No. 440/2008, Annex, B.6
Result : negative

Germ cell mutagenicity

Not classified based on available information.

Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476

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Result: negative

Test Type: Bacterial reverse mutation assay (AMES)
Method: Directive 67/548/EEC, Annex, B.13/14
Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Hamster
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 475
Result: negative

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative

m-phenylenebis(methylamine):

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative

2,4,6-Tris((Dimethylamino)methyl)phenol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

p-Toluenesulphonic acid (containing a maximum of 5 % H₂SO₄):

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473

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Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:

p-Toluenesulphonic acid (containing a maximum of 5 % H₂SO₄):

Species : Mouse
Application Route : Skin contact
Exposure time : 2 Years
Result : negative
Remarks : Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rabbit
Application Route: Ingestion
Result: negative

m-phenylenebis(methylamine):

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

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2,4,6-Tris((Dimethylamino)methyl)phenol:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative

p-Toluenesulphonic acid (containing a maximum of 5 % H₂SO₄):

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rabbit
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Quartz (SiO₂):

Exposure routes : inhalation (dust/mist/fume)
Target Organs : Lungs
Assessment : Shown to produce significant health effects in animals at concentrations of 0.02 mg/l/6h/d or less.

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Repeated dose toxicity

Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

| | |
|-------------------|-------------|
| Species | : Rat |
| NOAEL | : 10 mg/kg |
| LOAEL | : 60 mg/kg |
| Application Route | : Ingestion |
| Exposure time | : 13 Weeks |

m-phenylenebis(methylamine):

| | |
|-------------------|-------------|
| Species | : Rat |
| NOAEL | : 150 mg/kg |
| Application Route | : Ingestion |
| Exposure time | : 28 Days |

2,4,6-Tris((Dimethylamino)methyl)phenol:

| | |
|-------------------|---------------------------|
| Species | : Rat |
| NOAEL | : 15 mg/kg |
| Application Route | : Ingestion |
| Exposure time | : 43 Days |
| Method | : OECD Test Guideline 422 |

p-Toluenesulphonic acid (containing a maximum of 5 % H₂SO₄):

| | |
|-------------------|---------------------------|
| Species | : Rat |
| NOAEL | : >= 500 mg/kg |
| Application Route | : Ingestion |
| Exposure time | : 28 Days |
| Method | : OECD Test Guideline 407 |

Quartz (SiO₂):

| | |
|-------------------|--|
| Species | : Humans |
| LOAEL | : 0,053 mg/m ³ |
| Application Route | : Inhalation |
| Remarks | : This substance(s) is not bioavailable and therefore does not contribute to a dust inhalation hazard. |

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

| | |
|------------|---|
| Assessment | : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at |
|------------|---|

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levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

- | | | |
|--|---|---|
| Toxicity to fish | : | LC50 (Leuciscus idus (Golden orfe)): 174 mg/l Exposure time: 48 h Method: DIN 38412 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 31,5 mg/l Exposure time: 24 h Method: DIN 38412 |
| Toxicity to algae/aquatic plants | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): 43,5 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)): 16 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| Toxicity to microorganisms | : | EC10 (Pseudomonas putida): 72 mg/l Exposure time: 17 h Method: DIN 38 412 Part 8 |
| Toxicity to fish (Chronic toxicity) | : | NOEC: >= 10,9 mg/l Exposure time: 30 d Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210 |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | EC10: 1,02 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 |

m-phenylenebis(methylamine):

- | | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Oryzias latipes (Orange-red killifish)): 87,6 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 15,2 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic | : | ErC50 (Selenastrum capricornutum (green algae)): 33,3 mg/l |

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plants

Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Selenastrum capricornutum (green algae)): 22,9 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

ErC50 (Selenastrum capricornutum (green algae)): 32,1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 : > 1.000 mg/l
Exposure time: 30 min
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 4,7 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

2,4,6-Tris{(Dimethylamino)methyl}phenol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 180 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 84 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 6,25 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC : 2 mg/l
Exposure time: 28 d
Method: OECD Test Guideline 301D

p-Toluenesulphonic acid (containing a maximum of 5 % H₂SO₄):

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 325 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 10 - 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): > 1

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mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 : 240 mg/l
Exposure time: 3 h

Quartz (SiO₂):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 508 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 731 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

12.2 Persistence and degradability

Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 7 %
Exposure time: 28 d
Method: Directive 67/548/EEC Annex V, C.4.A.

m-phenylenebis(methylamine):

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 49 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

2,4,6-Tris((Dimethylamino)methyl)phenol:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 4 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

p-Toluenesulphonic acid (containing a maximum of 5 % H₂SO₄):

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301B
Remarks: Based on data from similar materials

12.3 Bioaccumulative potential

Components:

2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine:

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Partition coefficient: n-
octanol/water : log Pow: -0,3

m-phenylenebis(methylamine):

Partition coefficient: n-
octanol/water : log Pow: 0,18

2,4,6-Tris((Dimethylamino)methyl)phenol:

Partition coefficient: n-
octanol/water : log Pow: 0,219

p-Toluenesulphonic acid (containing a maximum of 5 % H₂SO₄):

Partition coefficient: n-
octanol/water : log Pow: -0,96
Method: Regulation (EC) No. 440/2008, Annex, A.8

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

Waste Code : The following Waste Codes are only suggestions:

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used product
08 04 09*, waste adhesives and sealants containing organic solvents or other hazardous substances

unused product
08 04 09*, waste adhesives and sealants containing organic solvents or other hazardous substances

uncleaned packagings
15 01 10*, packaging containing residues of or contaminated by hazardous substances

Acc. Packaging Act properly emptied packaging:
Properly emptied, non-contaminated packaging of non-hazardous products can be supplied to a system for the collection of sales packaging.

SECTION 14: Transport information

14.1 UN number or ID number

| | | |
|------|---|---------|
| ADN | : | UN 3259 |
| ADR | : | UN 3259 |
| RID | : | UN 3259 |
| IMDG | : | UN 3259 |
| IATA | : | UN 3259 |

14.2 UN proper shipping name

| | | |
|------|---|--|
| ADN | : | AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine) |
| ADR | : | AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine) |
| RID | : | AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine) |
| IMDG | : | AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine) |
| IATA | : | Amines, solid, corrosive, n.o.s. (m-phenylenebis(methylamine), 2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine) |

14.3 Transport hazard class(es)

| Class | Subsidiary risks |
|-------|------------------|
|-------|------------------|

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| | | |
|-------------|---|---|
| ADN | : | 8 |
| ADR | : | 8 |
| RID | : | 8 |
| IMDG | : | 8 |
| IATA | : | 8 |

14.4 Packing group

ADN
Packing group : II
Classification Code : C8
Hazard Identification Number : 80
Labels : 8

ADR
Packing group : II
Classification Code : C8
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

RID
Packing group : II
Classification Code : C8
Hazard Identification Number : 80
Labels : 8

IMDG
Packing group : II
Labels : 8
EmS Code : F-A, S-B

IATA (Cargo)
Packing instruction (cargo aircraft) : 863
Packing instruction (LQ) : Y844
Packing group : II
Labels : Corrosive

IATA (Passenger)
Packing instruction (passenger aircraft) : 859
Packing instruction (LQ) : Y844
Packing group : II
Labels : Corrosive

14.5 Environmental hazards

ADN
Environmentally hazardous : no

ADR
Environmentally hazardous : no

RID

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Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) :

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

Conditions of restriction for the following entries should be considered: Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water hazard class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

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TA Luft List (Germany) : 5.2.1: Total dust:
Not applicable
5.2.2: Inorganic substances in powdered form:
Not applicable
5.2.4: Inorganic substances in gaseous form:
Not applicable
5.2.5: Organic Substances:
Not applicable
5.2.7.1.1: Carcinogenic substance:
Not applicable
5.2.7.1.1: Quartz fine dust PM4:
others: 3,08 % Quartz (SiO₂)
5.2.7.1.1: Formaldehyde:
Not applicable
5.2.7.1.1: fibres:
Not applicable
5.2.7.2: Poorly degradable, easily enrichable and highly toxic
organic substances:
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial
emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 21,7 %

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national
regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information : Items where changes have been made to the previous version
are highlighted in the body of this document by two vertical
lines.

Full text of H-Statements

H302 : Harmful if swallowed.
H314 : Causes severe skin burns and eye damage.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H332 : Harmful if inhaled.
H372 : Causes damage to organs through prolonged or repeated
exposure if inhaled.
H412 : Harmful to aquatic life with long lasting effects.
EUH071 : Corrosive to the respiratory tract.

Full text of other abbreviations

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| | | |
|-------------------|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Eye Dam. | : | Serious eye damage |
| Skin Corr. | : | Skin corrosion |
| Skin Sens. | : | Skin sensitisation |
| STOT RE | : | Specific target organ toxicity - repeated exposure |
| 2004/37/EC | : | Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work |
| DE DFG MAK | : | Germany. MAK BAT Annex IIa |
| DE TRGS 900 | : | Germany. TRGS 900 - Occupational exposure limit values. |
| 2004/37/EC / TWA | : | Long term exposure limit |
| DE DFG MAK / MAK | : | MAK value |
| DE TRGS 900 / AGW | : | Time Weighted Average |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

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Classification of the mixture:

| | |
|---------------|------|
| Acute Tox. 4 | H302 |
| Skin Corr. 1A | H314 |
| Eye Dam. 1 | H318 |
| Skin Sens. 1 | H317 |

Classification procedure:

| |
|--------------------|
| Calculation method |
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