

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

1.1. Product Identifier

Product form : Mixture
Product Name : SP1-204
Synonyms : Silicone Primer

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Improves the adhesion of one and two part RTV systems to various substrates. For professional use only.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NuSil Technology LLC
1050 Cindy Lane
Carpinteria, California 93013
USA
(805) 684-8780
regcomp@nusil.com
www.nusil.com

1.4. Emergency Telephone Number

Emergency Number : 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and Maritime)

SECTION 2: Hazards identification

2.1. Classification of the Substance or Mixture

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

| | |
|---------------------------------|------|
| Flam. Liq. 2 | H225 |
| Acute Tox. 4 (Oral) | H302 |
| Acute Tox. 4 (Inhalation:vapor) | H332 |
| Skin Irrit. 2 | H315 |
| Eye Dam. 1 | H318 |
| Repr. 2 | H361 |
| STOT SE 3 | H336 |
| STOT RE 2 | H373 |
| Asp. Tox. 1 | H304 |
| Aquatic Chronic 2 | H411 |

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

R10
Xn; R22
Xn; R20
Xi; R38
Xi; R41
Repr.Cat.3; R62
Repr.Cat.3; R63
R67
Xn; R65
N; R51/53
R33

Full text of R-phrases: see section 16

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label Elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Hazardous ingredients :

Hazard statements (CLP) :

Precautionary statements (CLP) :

Danger

Toluene, 1-Butanol, titanium(4+) salt

H225 - Highly flammable liquid and vapour

H302+H332 - Harmful if swallowed or if inhaled

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

P201 - Obtain special instructions before use

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

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P260 - Do not breathe mist, vapours, spray

P264 - Wash hands, forearms and face thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective clothing, protective gloves, eye protection

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P302+P352 - IF ON SKIN: Wash with plenty of water

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P308+P313 - If exposed or concerned: Get medical advice/attention

P312 - Call a POISON CENTER or doctor if you feel unwell

P321 - Specific treatment (see Section 4)

P330 - Rinse mouth

P331 - Do NOT induce vomiting

P332+P313 - If skin irritation occurs: Get medical advice/attention

P362+P364 - Take off contaminated clothing and wash it before reuse

P370+P378 - In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, sand to extinguish

P391 - Collect spillage

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P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P235 - Keep cool
P405 - Store locked up
P501 - Dispose of contents/container according to Dispose in a safe manner in accordance with local/national regulations

2.3. Other Hazards

Other hazards not contributing to the classification : Flammable vapours can accumulate in head space of closed systems. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity : 5% of the mixture consists of ingredients of unknown acute toxicity.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product Identifier | % | Classification according to Directive 67/548/EEC |
|---|--|-------------------------------|--|
| Solvent naphtha, petroleum, light aliphatic | (CAS No) 64742-89-8 (EC no) 265-192-2 (EC index no) 649-267-00-0 | 65 - 70 | R10 Xi; R38 R67 Xn; R65 N; R51/53 |
| Toluene | (CAS No) 108-88-3 (EC no) 203-625-9 (EC index no) 601-021-00-3 | 10 - 15 | F; R11 Xi; R38 Xn; R65 Xn; R48/20 Repr.Cat.3; R63 R67 R52/53 |
| Silicic acid (H ₄ SiO ₄), tetrapropyl ester | (CAS No) 682-01-9 (EC no) 211-659-0 | < 5 | Not classified |
| 1-Butanol, titanium(4+) salt | (CAS No) 5593-70-4 (EC no) 227-006-8 | < 5 | R10 Xi; R41 R67 Xi; R37 Xi; R38 |
| Xylenes (o-, m-, p- isomers) | (CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 | < 5 | R10 Xn; R20/21 Xi; R36/38 Xn; R65 R67 |
| Silicic acid (H ₄ SiO ₄), tetrakis(2-methoxyethyl) ester | (CAS No) 2157-45-1 (EC no) 218-470-2 | < 5 | Xi; R36/38 |
| Name | Product Identifier | Specific concentration limits | |
| Xylenes (o-, m-, p- isomers) | (CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 | (12,5 =< C) Xn;R20/21 | |

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| Name | Product Identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|--|
| Solvent naphtha, petroleum, light aliphatic | (CAS No) 64742-89-8 (EC no) 265-192-2 (EC index no) 649-267-00-0 | 65 - 70 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Toluene | (CAS No) 108-88-3 (EC no) 203-625-9 (EC index no) 601-021-00-3 | 10 - 15 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 |
| Silicic acid (H ₄ SiO ₄), tetrapropyl ester | (CAS No) 682-01-9 (EC no) 211-659-0 | < 5 | Not classified |
| 1-Butanol, titanium(4+) salt | (CAS No) 5593-70-4 (EC no) 227-006-8 | < 5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335 |
| Xylenes (o-, m-, p- isomers) | (CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 | < 5 | Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304 |
| Silicic acid (H ₄ SiO ₄), tetrakis(2-methoxyethyl) ester | (CAS No) 2157-45-1 (EC no) 218-470-2 | < 5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 |

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of First Aid Measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). If exposed or concerned: Get medical advice/attention.
- First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get immediate medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

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First-aid measures after ingestion : Rinse mouth thoroughly with water. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/injuries : May cause drowsiness and dizziness. May cause damage to organs. Causes serious eye damage. Causes skin irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness. Irritating to mouth, nose, throat, and lungs, may cause difficulty in breathing.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. May cause nausea, vomiting, and diarrhea. Aspiration into the lungs can cause severe pulmonary edema/hemorrhage.

Chronic symptoms : Causes damage to organs through prolonged or repeated exposure. Suspected of damaging fertility. Suspected of damaging the unborn child.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: Firefighting measures

5.1. Extinguishing Media

Suitable extinguishing media : Foam, dry chemical, carbon dioxide, water spray.

Unsuitable extinguishing media : Do not use a heavy water stream. Application of water stream to hot product may cause frothing and increase fire intensity.

5.2. Special Hazards Arising From the Substance or Mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Reactivity : Hazardous reactions will not occur under normal conditions.

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire.

Firefighting instructions : Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Do not allow the product to be released into the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid breathing (vapour, mist, spray). Avoid all unnecessary exposure.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).

Emergency procedures : Ventilate area.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area. Stop leak if safe to do so. Eliminate ignition sources.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

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6.4. Reference to other sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Hot organic chemical vapours or mists are susceptible to spontaneous combustion when mixed with air, ignition may occur below auto ignition temperature. Ignition temperatures will decrease with increasing vapour volumes, vapour air contact time, and pressure changes. Ignition may occur at elevated-temperature process conditions, especially under a vacuum. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only non-sparking tools. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid all eyes and skin contact and do not breathe vapour and mist. Avoid contact during pregnancy/while nursing.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment.

Storage conditions : Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from Extremely high or low temperatures, Ignition sources, Direct sunlight., Incompatible materials.

7.3. Specific end use(s)

Improves the adhesion of one and two part RTV systems to various substrates . For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Toluene (108-88-3) | | |
|--------------------|---|-------------------------|
| EU | IOELV TWA (mg/m ³) | 192 mg/m ³ |
| EU | IOELV TWA (ppm) | 50 ppm |
| EU | IOELV STEL (mg/m ³) | 384 mg/m ³ |
| EU | IOELV STEL (ppm) | 100 ppm |
| Austria | MAK (mg/m ³) | 190 mg/m ³ |
| Austria | MAK (ppm) | 50 ppm |
| Austria | MAK Short time value (mg/m ³) | 380 mg/m ³ |
| Austria | MAK Short time value (ppm) | 100 ppm |
| Belgium | Limit value (mg/m ³) | 77 mg/m ³ |
| Belgium | Limit value (ppm) | 22 ppm |
| Belgium | Short time value (mg/m ³) | 384 mg/m ³ |
| Belgium | Short time value (ppm) | 100 ppm |
| Bulgaria | OEL TWA (mg/m ³) | 192,0 mg/m ³ |
| Bulgaria | OEL TWA (ppm) | 50 ppm |

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| Toluene (108-88-3) | | |
|---------------------------------|---|---|
| Bulgaria | OEL STEL (mg/m ³) | 384,0 mg/m ³ |
| Bulgaria | OEL STEL (ppm) | 100 ppm |
| Cyprus | OEL TWA (mg/m ³) | 192 mg/m ³ |
| Cyprus | OEL TWA (ppm) | 50 ppm |
| Cyprus | OEL STEL (mg/m ³) | 384 mg/m ³ |
| Cyprus | OEL STEL (ppm) | 100 ppm |
| France | VLE (mg/m ³) | 384 mg/m ³ (restrictive limit) |
| France | VLE (ppm) | 100 ppm (restrictive limit) |
| France | VME (mg/m ³) | 76,8 mg/m ³ (restrictive limit) |
| France | VME (ppm) | 20 ppm (restrictive limit) |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 190 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 50 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Germany | TRGS 903 (BGW) | 600 µg/l (Medium: whole blood - Time: end of shift - Parameter: Toluene) 1,5 mg/l (Medium: urine - Time: end of several shifts - Parameter: o-Cresol (after hydrolysis; for long-term exposures) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 20 ppm |
| Italy | OEL TWA (mg/m ³) | 192 mg/m ³ |
| Italy | OEL TWA (ppm) | 50 ppm |
| Latvia | OEL TWA (mg/m ³) | 50 mg/m ³ |
| Latvia | OEL TWA (ppm) | 14 ppm |
| Spain | VLA-ED (mg/m ³) | 192 mg/m ³ (indicative limit value; manufacturing, commercialization, and use restrictions under REACH) |
| Spain | VLA-ED (ppm) | 50 ppm (indicative limit value; manufacturing, commercialization, and use restrictions under REACH) |
| Spain | VLA-EC (mg/m ³) | 384 mg/m ³ |
| Spain | VLA-EC (ppm) | 100 ppm |
| Netherlands | MAC TGG 8H (mg/m ³) | 150 mg/m ³ |
| Netherlands | MAC TGG 15MIN (mg/m ³) | 384 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 191 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 50 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 384 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 100 ppm |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 200 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 94 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 25 ppm |

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| Toluene (108-88-3) | | |
|---------------------------|---|--|
| Finland | HTP-arvo (8h) (mg/m ³) | 81 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 25 ppm |
| Finland | HTP-arvo (15 min) | 380 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 100 ppm |
| Hungary | AK-érték | 190 mg/m ³ |
| Hungary | CK-érték | 380 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 192 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 50 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 384 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 100 ppm |
| Lithuania | IPRV (mg/m ³) | 192 mg/m ³ |
| Lithuania | IPRV (ppm) | 50 ppm |
| Lithuania | TPRV (mg/m ³) | 384 mg/m ³ |
| Lithuania | TPRV (ppm) | 100 ppm |
| Malta | OEL TWA (mg/m ³) | 192 mg/m ³ |
| Malta | OEL TWA (ppm) | 50 ppm |
| Malta | OEL STEL (mg/m ³) | 384 mg/m ³ |
| Malta | OEL STEL (ppm) | 100 ppm |
| Poland | NDS (mg/m ³) | 100 mg/m ³ |
| Poland | NDSch (mg/m ³) | 200 mg/m ³ |
| Romania | OEL TWA (mg/m ³) | 192 mg/m ³ |
| Romania | OEL TWA (ppm) | 50 ppm |
| Romania | OEL STEL (mg/m ³) | 384 mg/m ³ |
| Romania | OEL STEL (ppm) | 100 ppm |
| Slovakia | NPHV (priemerná) (mg/m ³) | 192 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 50 ppm |
| Slovakia | NPHV (Hraničná) (mg/m ³) | 384 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 192 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 50 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 384 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 100 ppm |
| Portugal | OEL TWA (mg/m ³) | 192 mg/m ³ (indicative limit value) |
| Portugal | OEL TWA (ppm) | 50 ppm (indicative limit value) |
| Portugal | OEL STEL (mg/m ³) | 384 mg/m ³ (indicative limit value) |
| Portugal | OEL STEL (ppm) | 100 ppm (indicative limit value) |
| Portugal | OEL chemical category (PT) | A4 - Not Classifiable as a Human Carcinogen,skin - potential for cutaneous exposure indicative limit value |

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| Xylenes (o-, m-, p- isomers) (1330-20-7) | | |
|---|---|---|
| EU | IOELV TWA (mg/m ³) | 221 mg/m ³ (pure) |
| EU | IOELV TWA (ppm) | 50 ppm (pure) |
| EU | IOELV STEL (mg/m ³) | 442 mg/m ³ (pure) |
| EU | IOELV STEL (ppm) | 100 ppm (pure) |
| Austria | MAK (mg/m ³) | 221 mg/m ³ (all isomers) |
| Austria | MAK (ppm) | 50 ppm (all isomers) |
| Austria | MAK Short time value (mg/m ³) | 442 mg/m ³ (all isomers) |
| Austria | MAK Short time value (ppm) | 100 ppm (all isomers) |
| Belgium | Limit value (mg/m ³) | 221 mg/m ³ |
| Belgium | Limit value (ppm) | 50 ppm |
| Belgium | Short time value (mg/m ³) | 442 mg/m ³ |
| Belgium | Short time value (ppm) | 100 ppm |
| Bulgaria | OEL TWA (mg/m ³) | 221,0 mg/m ³ (pure) |
| Bulgaria | OEL TWA (ppm) | 50 ppm (pure) |
| Bulgaria | OEL STEL (mg/m ³) | 442 mg/m ³ (pure) |
| Bulgaria | OEL STEL (ppm) | 100 ppm (pure) |
| Cyprus | OEL TWA (mg/m ³) | 221 mg/m ³ |
| Cyprus | OEL TWA (ppm) | 50 ppm |
| Cyprus | OEL STEL (mg/m ³) | 442 mg/m ³ |
| Cyprus | OEL STEL (ppm) | 100 ppm |
| France | VLE (mg/m ³) | 442 mg/m ³ (restrictive limit) |
| France | VLE (ppm) | 100 ppm (restrictive limit) |
| France | VME (mg/m ³) | 221 mg/m ³ (restrictive limit) |
| France | VME (ppm) | 50 ppm (restrictive limit) |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 440 mg/m ³ (all isomers) |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 100 ppm (all isomers) |
| Germany | TRGS 903 (BGW) | 1,5 mg/l (Medium: whole blood - Time: end of shift - Parameter: Xylene (all isomers)) 2000 mg/l (Medium: urine - Time: end of shift - Parameter: Methylhippuric(tolur-)acid (all isomers)) |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 100 ppm |
| Italy - Portugal - USA ACGIH | ACGIH STEL (ppm) | 150 ppm |
| Italy | OEL TWA (mg/m ³) | 221 mg/m ³ (pure) |
| Italy | OEL TWA (ppm) | 50 ppm (pure) |
| Italy | OEL STEL (mg/m ³) | 442 mg/m ³ (pure) |
| Italy | OEL STEL (ppm) | 100 ppm (pure) |
| Latvia | OEL TWA (mg/m ³) | 221 mg/m ³ |
| Latvia | OEL TWA (ppm) | 50 ppm |

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| Xylenes (o-, m-, p- isomers) (1330-20-7) | | |
|---|---|--|
| Spain | VLA-ED (mg/m ³) | 221 mg/m ³ (indicative limit value) |
| Spain | VLA-ED (ppm) | 50 ppm (indicative limit value) |
| Spain | VLA-EC (mg/m ³) | 442 mg/m ³ |
| Spain | VLA-EC (ppm) | 100 ppm |
| Netherlands | MAC TGG 8H (mg/m ³) | 210 mg/m ³ |
| Netherlands | MAC TGG 15MIN (mg/m ³) | 442 mg/m ³ |
| 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 |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 200 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 109 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 25 ppm |
| Finland | HTP-arvo (8h) (mg/m ³) | 220 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 50 ppm |
| Finland | HTP-arvo (15 min) | 440 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 100 ppm |
| Hungary | AK-érték | 221 mg/m ³ |
| Hungary | CK-érték | 442 mg/m ³ |
| 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 |
| Lithuania | IPRV (mg/m ³) | 200 mg/m ³ |
| Lithuania | IPRV (ppm) | 50 ppm |
| Lithuania | TPRV (mg/m ³) | 450 mg/m ³ |
| Lithuania | TPRV (ppm) | 100 ppm |
| Malta | OEL TWA (mg/m ³) | 221 mg/m ³ (pure) |
| Malta | OEL TWA (ppm) | 50 ppm (pure) |
| Malta | OEL STEL (mg/m ³) | 442 mg/m ³ (pure) |
| Malta | OEL STEL (ppm) | 100 ppm (pure) |
| Poland | NDS (mg/m ³) | 100 mg/m ³ |
| Romania | OEL TWA (mg/m ³) | 221 mg/m ³ |
| Romania | OEL TWA (ppm) | 50 ppm |
| Romania | OEL STEL (mg/m ³) | 442 mg/m ³ |
| Romania | OEL STEL (ppm) | 100 ppm |
| Slovakia | NPHV (priemerná) (mg/m ³) | 221 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 50 ppm |
| Slovakia | NPHV (Hraničná) (mg/m ³) | 442 mg/m ³ |

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| Xylenes (o-, m-, p- isomers) (1330-20-7) | | |
|---|---|---|
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 221 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 50 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 442 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 100 ppm |
| Portugal | OEL TWA (mg/m ³) | 221 mg/m ³ (indicative limit value) |
| Portugal | OEL TWA (ppm) | 50 ppm (indicative limit value) |
| Portugal | OEL STEL (mg/m ³) | 442 mg/m ³ (indicative limit value) |
| Portugal | OEL STEL (ppm) | 100 ppm (indicative limit value) |
| Portugal | OEL chemical category (PT) | A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value |

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment : Avoid all unnecessary exposure. Insufficient ventilation: wear respiratory protection. Protective goggles. Gloves. Full protective flameproof clothing.



Materials for protective clothing : Chemically resistant materials and fabrics. Wear fire/flamm resistant/retardant clothing.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Chemical goggles or face shield.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Thermal hazard protection : Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------|
| Physical state | : Liquid |
| Colour | : Off-white |
| Odour | : Solvent |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 17,22 °C (63° F) |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |

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| | |
|--|---------------------|
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative Density | : < 1 (water = 1) |
| Solubility | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

VOC content : 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources. Incompatible materials.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

Oxides of silicone and carbon. May release flammable gases. Hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful if inhaled.

| | |
|--|---------------------------|
| SP1-204 | |
| ATE CLP (oral) | 500,000 mg/kg bodyweight |
| ATE CLP (gases) | 4500,000 ppmv/4h |
| Solvent naphtha, petroleum, light aliphatic (64742-89-8) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | 3000 mg/kg |
| ATE CLP (dermal) | 3000,000 mg/kg bodyweight |
| Toluene (108-88-3) | |
| LD50 oral rat | 5580 mg/kg |
| LD50 dermal rabbit | 8390 mg/kg |
| ATE CLP (oral) | 636,000 mg/kg bodyweight |
| ATE CLP (dermal) | 8390,000 mg/kg bodyweight |
| ATE CLP (vapours) | 12,500 mg/l/4h |
| ATE CLP (dust,mist) | 12,500 mg/l/4h |
| Silicic acid (H₄SiO₄), tetrapropyl ester (682-01-9) | |
| LD50 oral rat | > 2000 mg/kg |
| ATE CLP (dust,mist) | 10,000 mg/l/4h |

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| 1-Butanol, titanium(4+) salt (5593-70-4) | |
|---|---------------------------------------|
| LD50 oral rat | > 2000 mg/kg |
| Xylenes (o-, m-, p- isomers) (1330-20-7) | |
| LD50 oral rat | 4300 mg/kg |
| LC50 inhalation rat (mg/l) | 47635 mg/l/4h (Exposure time: 4 h) |
| LC50 inhalation rat (ppm) | 6247 ppm/4h (species: Sprague-Dawley) |
| ATE CLP (oral) | 4300,000 mg/kg bodyweight |
| ATE CLP (dermal) | 1100,000 mg/kg bodyweight |
| ATE CLP (vapours) | 11,000 mg/l/4h |

| | |
|--|--|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye damage. |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Suspected of damaging fertility or the unborn child. |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

| Toluene (108-88-3) | |
|---------------------------|--|
| LC50 fishes 1 | 15,22 - 19,05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 5,46 - 9,83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC50 fish 2 | 12,6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 2 | 11,5 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| NOEC chronic crustacea | 0,74 mg/l (Ceriodaphnia dubia) |

| 1-Butanol, titanium(4+) salt (5593-70-4) | |
|---|----------|
| EC50 Daphnia 1 | 680 mg/l |

| Xylenes (o-, m-, p- isomers) (1330-20-7) | |
|---|--|
| LC50 fishes 1 | 3,3 mg/l |
| EC50 Daphnia 1 | 3,82 mg/l (Exposure time: 48 h - Species: water flea) |
| LC50 fish 2 | 2,661 (2,661 - 4,093) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

| Toluene (108-88-3) | |
|---|----------------|
| Log Pow | 2,65 |
| Xylenes (o-, m-, p- isomers) (1330-20-7) | |
| BCF fish 1 | 0,6 (0,6 - 15) |
| Log Pow | 2,77 - 3,15 |

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer. Do not empty into drains.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Additional information : Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

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

14.1. UN number

UN-No. : 1993

14.2. UN proper shipping name

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S.
Transport document description : UN1993 FLAMMABLE LIQUID, N.O.S., (NAPHTHA, TOLUENE AND XYLENES SOLUTION), 3, II, (D/E)

14.3. Transport hazard class(es)

Class (UN) : 3
Hazard labels (UN) : 3



14.4. Packing group

Packing group (UN) : II

14.5. Environmental hazards

Dangerous for the environment :
Marine pollutant :



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 33
Classification code (UN) : F1
Orange plates :



Special provision (ADR) : 274, 601, 640D
Transport category (ADR) : 2
Tunnel restriction code : D/E
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2
EAC code : •3YE
14.6.2. Transport by sea
MFAG-No : 127;128

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14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 | SP1-204 - Solvent naphtha, petroleum, light aliphatic - Toluene - Xylenes (o-, m-, p- isomers) - 1-Butanol, titanium(4+) salt - Silicic acid (H ₄ SiO ₄), tetrakis(2-methoxyethyl) ester |
| 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. | SP1-204 - Solvent naphtha, petroleum, light aliphatic - Toluene - Xylenes (o-, m-, p- isomers) - 1-Butanol, titanium(4+) salt |
| 48. Toluene | Toluene |

Contains no REACH candidate substance

VOC content : 100 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date : 18/07/2014

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Full text of R-, H- and EUH-phrases

| | |
|----------------------------------|---|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 4 |
| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, 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 |

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| | |
|---------------|--|
| Repr. 2 | Reproductive toxicity, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| 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, Narcosis |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H225 | Highly flammable liquid and vapour |
| H226 | Flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H361 | Suspected of damaging fertility or the unborn child |
| H361d | Suspected of damaging the unborn child |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |
| R10 | Flammable |
| R11 | Highly flammable |
| R20 | Harmful by inhalation |
| R20/21 | Harmful by inhalation and in contact with skin |
| R22 | Harmful if swallowed |
| R33 | Danger of cumulative effects |
| R36/38 | Irritating to eyes and skin |
| R37 | Irritating to respiratory system |
| R38 | Irritating to skin |
| R41 | Risk of serious damage to eyes |
| R48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R62 | Possible risk of impaired fertility |
| R63 | Possible risk of harm to the unborn child |
| R65 | Harmful: may cause lung damage if swallowed |
| R67 | Vapours may cause drowsiness and dizziness |
| F | Highly flammable |
| N | Dangerous for the environment |
| Xi | Irritant |

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| | |
|----|---------|
| Xn | Harmful |
|----|---------|

SDS EU (REACH Annex II) 11pt

We believe that the information contained herein is current as of the date of this Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of NuSil Technology, it is the user's obligation to determine the conditions of safe use of the product.



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