# Safety Data Sheet



LOCTITE® Quickstix™ 561™ PST® Pipe Sealant with PTFE

SDS No. : 153640
V001.9
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## Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** LOCTITE® Quickstix™ 561™ PST® Pipe Sealant with PTFE

**Other means of identification:** LOCTITE 561 STICK 19G
**Product code:** IDH463973
**Recommended use of the chemical and restrictions on use**

**Intended use:** Anaerobic Sealant
**Manufacturer/Importer/Distributor Representative Company**

Henkel Adhesive Tech. Vietnam Co., Ltd,
No. 7, Road 9A Bien Hoa II Industrial Zone,
Bien Hoa City,
810000 Dong Nai Province

Vietnam

Phone: +84 (28) 7100 6301
Fax-no.: +84 (28) 7100 6300

**E-mail address of person responsible for Safety Data Sheet:** ap-ua-psra.sea@henkel.com

**Emergency Telephone for Chemical Accidents:** FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +84 28 71006388

## Section 2. Hazards identification

**GHS Classification:**

| Hazard Class | Hazard Category | Target organ |
|---|---|---|
| Skin sensitizer | Category 1 | |
| Specific target organ toxicity - single exposure | Category 3 | respiratory tract irritation |
| Acute hazards to the aquatic environment | Category 1 | |
| Chronic hazards to the aquatic environment | Category 1 | |

**GHS label elements:**

**Hazard pictogram:**



**Signal word:** Warning

| | |
|---|---|
| **Hazard statement:** | H317 May cause an allergic skin reaction.<br>H335 May cause respiratory irritation.<br>H410 Very toxic to aquatic life with long lasting effects. |

**Precaution:**

| | |
|---|---|
| **Prevention:** | P261 Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves. |
| **Response:** | P302+P352 IF ON SKIN: Wash with plenty of water.<br>P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse.<br>P391 Collect spillage. |
| **Storage:** | P403+P233 Store in a well-ventilated place. Keep container tightly closed. |
| **Disposal:** | P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |

## Section 3. Composition / information on ingredients

**Substance or Mixture:**
Mixture

**Declaration of hazardous chemical:**

| Hazard component CAS-No. | Content | GHS Classification |
|---|---|---|
| Polyamide wax<br>Proprietary | 1- 10 % | Skin Sensitization 1<br>H317<br>Acute hazards to the aquatic environment 1<br>H400<br>Chronic hazards to the aquatic environment 1<br>H410 |
| Silica, amorphous, fumed, cryst.-free<br>112945-52-5 | 1- 10 % | |
| Ethane-1,2-diol<br>107-21-1 | 1- 10 % | Acute toxicity 4; Oral<br>H302<br>Specific target organ toxicity - repeated exposure 2; Oral<br>H373 |
| Ethene, homopolymer<br>9002-88-4 | 1- 10 % | |
| Titanium dioxide<br>13463-67-7 | 1- 10 % | |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | 0.1- 1 % | Flammable liquids 4<br>H227<br>Organic peroxides E<br>H242<br>Acute toxicity 4; Oral<br>H302<br>Acute toxicity 2; Inhalation<br>H330<br>Acute toxicity 4; Dermal<br>H312<br>Skin corrosion/irritation 1B<br>H314<br>Target Organ Systemic Toxicant - Single exposure 3<br>H335<br>Specific target organ toxicity - repeated exposure 2<br>H373<br>Acute hazards to the aquatic environment 2<br>H401<br>Chronic hazards to the aquatic environment 2<br>H411 |
| N,N-Diethyl-p-toluidine<br>613-48-9 | 0.1- 1 % | Flammable liquids 4<br>H227<br>Acute toxicity 3; Oral<br>H301<br>Acute toxicity 3; Inhalation<br>H331<br>Acute toxicity 3; Dermal<br>H311<br>Skin corrosion/irritation 2<br>H315<br>Specific target organ toxicity - repeated exposure 2<br>H373<br>Acute hazards to the aquatic environment 3<br>H402<br>Chronic hazards to the aquatic environment 3<br>H412 |
| 1,4-Naphthalenedione<br>130-15-4 | < 0.1 % | Acute toxicity 3; Oral<br>H301<br>Acute toxicity 1; Inhalation<br>H330<br>Skin corrosion/irritation 1C<br>H314<br>Serious eye damage/eye irritation 1<br>H318<br>Skin Sensitization 1<br>H317<br>Target Organ Systemic Toxicant - Single exposure 3<br>H335<br>Acute hazards to the aquatic environment 1<br>H400<br>Chronic hazards to the aquatic environment 1<br>H410 |

## Section 4. First aid measures

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.

**Skin contact:** Rinse with running water and soap.
Obtain medical attention if irritation persists.

**Eye contact:** Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

**Ingestion:** Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

**Indication of immediate medical attention and special treatment needed:** See section: Description of first aid measures

## Section 5. Fire fighting measures

**Suitable extinguishing media:** Carbon dioxide, foam, powder

**Specific hazards arising from the chemical:** In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

**Special protection equipment and precautions for firefighters:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

## Section 6. Accidental release measures

**Personal precautions:** Avoid skin and eye contact.
Wear protective equipment.
Ensure adequate ventilation.
See advice in section 8

**Environmental precautions:** Do not empty into drains / surface water / ground water.

**Clean-up methods:** For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.
Dispose of contaminated material as waste according to Section 13.

## Section 7. Handling and storage

**Handling:** Use only in well-ventilated areas.
Avoid skin and eye contact.
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.
See advice in section 8

**Storage:** Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.
Refer to Technical Data Sheet.

## Section 8. Exposure controls / personal protection

**Components with specific control parameters for workplace:**

| | | |
|---|---|---|
| Silica, amorphous, fumed, crystal-free<br>112945-52-5 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 10 |
| | **Remarks** | ACGIH |
| Silica, amorphous, fumed, crystal-free<br>112945-52-5 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 3 |
| | **Remarks** | ACGIH |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles<br>112945-52-5 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 3 |
| | **Remarks** | ACGIH |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles<br>112945-52-5 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 10 |
| | **Remarks** | ACGIH |
| ETHYLENE GLYCOL, FUME<br>107-21-1 | **Value type** | Short-term exposure limit (STEL): |
| | **mg/m³** | 125 |
| | **Remarks** | VN OEL |
| ETHYLENE GLYCOL, VAPOR FRACTION<br>107-21-1 | **Value type** | Time Weighted Average (TWA): |
| | **ppm** | 25 |
| | **Remarks** | ACGIH |
| ETHYLENE GLYCOL, VAPOR FRACTION<br>107-21-1 | **Value type** | Short Term Exposure Limit (STEL): |
| | **ppm** | 50 |
| | **Remarks** | ACGIH |
| ETHYLENE GLYCOL, AEROSOL ONLY, INHALABLE FRACTION<br>107-21-1 | **Value type** | Short Term Exposure Limit (STEL): |
| | **mg/m³** | 10 |
| | **Remarks** | ACGIH |
| ETHYLENE GLYCOL, PARTICLE AND MIST<br>107-21-1 | **Value type** | Short-term exposure limit (STEL): |
| | **mg/m³** | 20 |
| | **Remarks** | VN OEL |
| ETHYLENE GLYCOL, FUME<br>107-21-1 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 60 |
| | **Remarks** | VN OEL |
| ETHYLENE GLYCOL, PARTICLE AND MIST<br>107-21-1 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 10 |
| | **Remarks** | VN OEL |
| TITANIUM DIOXIDE (INHALABLE DUST)<br>13463-67-7 | **Value type** | Short-term exposure limit (STEL): |
| | **mg/m³** | 10 |
| | **Remarks** | VN OEL |
| Titanium dioxide, nanoscale particles, respirable fraction<br>13463-67-7 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 0.2 |
| | **Remarks** | ACGIH |
| Titanium dioxide, finescale particles, respirable fraction<br>13463-67-7 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 2.5 |

| | | |
|---|---|---|
| | **Remarks** | ACGIH |
| TITANIUM DIOXIDE (INHALABLE DUST)<br>13463-67-7 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 6 |
| | **Remarks** | VN OEL |
| TITANIUM DIOXIDE (RESPIRABLE DUST)<br>13463-67-7 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 5 |
| | **Remarks** | VN OEL |
| PARTICLES (INSOLUBLE OR POORLY SOLUBLE) NOT OTHERWISE SPECIFIED, INHALABLE PARTICLES<br>9002-88-4 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 10 |
| | **Remarks** | ACGIH |
| PARTICLES (INSOLUBLE OR POORLY SOLUBLE) NOT OTHERWISE SPECIFIED, RESPIRABLE PARTICLES<br>9002-88-4 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 3 |
| | **Remarks** | ACGIH |

**Respiratory protection:**
Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A (EN 14387)

**Hand protection:**
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**
Wear protective glasses.
Protective eye equipment should conform to EN166.

**Body protection:**
Wear suitable protective clothing.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

**Engineering controls:**
Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

**General protection and hygiene measures:**
The workplace should be equipped with an emergency shower and eye-rinsing facility.

**Hygienic measures:**
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Take off contaminated clothing and wash before reuse.

## Section 9. Physical and chemical properties

**Appearance:**
Off white
waxy

**Odor:**
mild

| | |
|---|---|
| **Odor threshold (CA):** | No data available. |
| **pH:** | Not applicable, Product is non-polar/aprotic. |
| **Melting point / freezing point:** | > 80 °C (> 176 °F) |
| **Specific gravity:** | 1.1394 |
| **Boiling point:** | > 150 °C (> 302 °F) |
| **Flash point:** | Not applicable |
| **Evaporation rate:** | No data available. |
| **Flammability (solid, gas):** | No data available. |
| **Lower explosive limit:** | No data available. |
| **Upper explosive limit:** | No data available. |
| **Vapor pressure:** | < 10 mm hg |
| (; 27 °C (80.6 °F); 25 °C (77 °F); | < 13 mbar |
| 20 °C (68 °F)) | < 0.13 mbar |
| **Vapor density:** | Not applicable, Product is a solid |
| **Density:** | 1.14 g/cm3 |
| **Solubility:** | Slightly soluble (20 °C) |
| **Partition coefficient: n-octanol/water:** | No data available. |
| **Auto ignition:** | No data available. |
| **Decomposition temperature:** | No data available. |
| **Viscosity:** | No data available. |
| **VOC content:** | < 3 % |
| (2010/75/EC) | |

## Section 10. Stability and reactivity

| | |
|---|---|
| **Reactivity/Incompatible materials:** | Acids.<br>Reacts with strong oxidants.<br>Reducing agents.<br>Strong bases. |
| **Chemical stability:** | Stable under recommended storage conditions. |
| **Possibility of hazardous reactions:** | Rapid polymerization may generate excessive heat and pressure. |
| **Conditions to avoid:** | Stable under normal conditions of storage and use. |
| **Hazardous decomposition products:** | carbon oxides.<br>Hydrocarbons<br>nitrogen oxides |

## Section 11. Toxicological information

| | |
|---|---|
| **Oral toxicity:** | Acute toxicity estimate (ATE) : > 2,000 mg/kg<br>Method: Calculation method |
| **Inhalative toxicity:** | Acute toxicity estimate (ATE) : > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: Calculation method |
| **Dermal toxicity:** | Acute toxicity estimate (ATE) : > 2,000 mg/kg<br>Method: Calculation method |

Symptoms of Overexposure**:** SKIN: Rash, Urticaria.
Prolonged or repeated contact may cause eye irritation.

**Acute oral toxicity:**

| | | |
|---|---|---|
| Polyamide wax<br>Proprietary | Value type | LD50 |
| | Value | > 5,000 mg/kg |
| | Species | rat |
| | Method | other guideline: |
| Silica, amorphous, fumed, cryst.-free<br>112945-52-5 | Value type | LD50 |
| | Value | > 5,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 401 (Acute Oral Toxicity) |
| Ethane-1,2-diol<br>107-21-1 | Value type | Acute toxicity estimate (ATE) |
| | Value | 500 mg/kg |
| | Species | |
| | Method | Expert judgement |
| Ethene, homopolymer<br>9002-88-4 | Value type | Acute toxicity estimate (ATE) |
| | Value | > 5,000 mg/kg |
| | Species | |
| | Method | Expert judgement |
| Titanium dioxide<br>13463-67-7 | Value type | LD50 |
| | Value | > 5,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | Value type | LD50 |
| | Value | 382 mg/kg |
| | Species | rat |
| | Method | other guideline: |
| N,N-Diethyl-p-toluidine<br>613-48-9 | Value type | Acute toxicity estimate (ATE) |
| | Value | 100 mg/kg |
| | Species | |
| | Method | Expert judgement |
| 1,4-Naphthalenedione<br>130-15-4 | Value type | LD50 |
| | Value | 124 mg/kg |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

**Acute inhalative toxicity:**

| | | |
|---|---|---|
| Silica, amorphous, fumed, cryst.-free<br>112945-52-5 | Value type | LC0 |
| | Value | 0.139 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | not specified |
| Ethene, homopolymer<br>9002-88-4 | Value type | Acute toxicity estimate (ATE) |
| | Value | > 5 mg/l |
| | Exposure time | 4 h |
| | Species | |
| | Method | Expert judgement |
| Titanium dioxide<br>13463-67-7 | Value type | LC50 |
| | Value | > 6.82 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | not specified |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | Value type | LC50 |
| | Value | 1.370 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | not specified |
| N,N-Diethyl-p-toluidine<br>613-48-9 | Value type | Acute toxicity estimate (ATE) |
| | Value | 3 mg/l |
| | Exposure time | |
| | Species | |
| | Method | Expert judgement |
| 1,4-Naphthalenedione<br>130-15-4 | Value type | LC50 |
| | Value | 0.046 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Acute dermal toxicity:**

| | | |
|---|---|---|
| Polyamide wax<br>Proprietary | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rat |
| | Method | other guideline: |
| Silica, amorphous, fumed, cryst.-free<br>112945-52-5 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rabbit |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |
| Ethane-1,2-diol<br>107-21-1 | Value type | LD50 |
| | Value | 10,600 mg/kg |
| | Species | rabbit |
| | Method | not specified |
| Ethene, homopolymer<br>9002-88-4 | Value type | Acute toxicity estimate (ATE) |
| | Value | > 5,000 mg/kg |
| | Species | |
| | Method | Expert judgement |
| Titanium dioxide<br>13463-67-7 | Value type | LD50 |
| | Value | > 10,000 mg/kg |
| | Species | rabbit |
| | Method | not specified |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | Value type | Acute toxicity estimate (ATE) |
| | Value | 1,100 mg/kg |
| | Species | |
| | Method | Expert judgement |
| N,N-Diethyl-p-toluidine<br>613-48-9 | Value type | Acute toxicity estimate (ATE) |
| | Value | 300 mg/kg |
| | Species | |
| | Method | Expert judgement |

**Skin corrosion/irritation:**

| | | |
|---|---|---|
| Silica, amorphous, fumed, cryst.-free | Result | not irritating |

| | | |
|---|---|---|
| 112945-52-5 | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Ethane-1,2-diol<br>107-21-1 | Result | not irritating |
| | Exposure time | 20 h |
| | Species | rabbit |
| | Method | BASF Test |
| Titanium dioxide<br>13463-67-7 | Result | not irritating |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | Result | corrosive |
| | Exposure time | |
| | Species | rabbit |
| | Method | Draize Test |
| N,N-Diethyl-p-toluidine<br>613-48-9 | Result | irritating |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 1,4-Naphthalenedione<br>130-15-4 | Result | Category 1C (corrosive) |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

| | | |
|---|---|---|
| Silica, amorphous, fumed, cryst.-free<br>112945-52-5 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Ethane-1,2-diol<br>107-21-1 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | BASF Test |
| Ethene, homopolymer<br>9002-88-4 | Result | not irritating |
| | Exposure time | 24 h |
| | Species | rabbit |
| | Method | FDA Guideline |
| Titanium dioxide<br>13463-67-7 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

| | | |
|---|---|---|
| Polyamide wax<br>Proprietary | Result | sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | OECD Guideline 406 (Skin Sensitisation) |
| Polyamide wax<br>Proprietary | Result | sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | OECD Guideline 406 (Skin Sensitisation) |
| Ethane-1,2-diol<br>107-21-1 | Result | not sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | OECD Guideline 406 (Skin Sensitisation) |
| Ethene, homopolymer<br>9002-88-4 | Result | not sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Titanium dioxide<br>13463-67-7 | Result | not sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Titanium dioxide<br>13463-67-7 | Result | not sensitising |
| | Test type | Buehler test |
| | Species | guinea pig |
| | Method | OECD Guideline 406 (Skin Sensitisation) |
| 1,4-Naphthalenedione<br>130-15-4 | Result | sensitising |
| | Test type | not specified |
| | Species | guinea pig |
| | Method | not specified |

**Germ cell mutagenicity:**

| | | |
|---|---|---|
| Silica, amorphous, fumed, cryst.-free<br>112945-52-5 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | |
| | Method | not specified |
| Silica, amorphous, fumed, cryst.-free<br>112945-52-5 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian chromosome aberration test |
| | Metabolic activation / Exposure time | |
| | Method | not specified |
| Silica, amorphous, fumed, cryst.-free<br>112945-52-5 | Result | negative |
| | Type of study / Route of administration | DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro |
| | Metabolic activation / Exposure time | |
| | Method | not specified |
| Ethane-1,2-diol<br>107-21-1 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Ethane-1,2-diol<br>107-21-1 | Result | negative |
| | Type of study / Route of administration | oral: feed |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| | Method | Chromosome Aberration Test |
| Ethene, homopolymer<br>9002-88-4 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | Ames Test |
| Titanium dioxide<br>13463-67-7 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Titanium dioxide<br>13463-67-7 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian chromosome aberration test |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Titanium dioxide<br>13463-67-7 | Result | negative |
| | Type of study / Route of administration | mammalian cell gene mutation assay |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Titanium dioxide<br>13463-67-7 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian cell micronucleus test |
| | Metabolic activation / Exposure time | without |
| | Method | equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| Titanium dioxide<br>13463-67-7 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| | Method | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | Result | positive |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | without |
| | Method | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | Result | negative |
| | Type of study / Route of administration | dermal |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | not specified |

**Repeated dose toxicity:**

| | | |
|---|---|---|
| Ethane-1,2-diol<br>107-21-1 | Result | NOAEL=150 mg/kg |
| | Route of application | oral: feed |
| | Exposure time / Frequency of treatment | 16 wdaily |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Titanium dioxide<br>13463-67-7 | Result | NOAEL=> 1,000 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | 92 ddaily |
| | Species | rat |
| | Method | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | Result | |
| | Route of application | inhalation: aerosol |
| | Exposure time / Frequency of treatment | 6 h/d5 d/w |
| | Species | rat |
| | Method | not specified |

## Section 12. Ecological information

**General ecological information:** Do not empty into drains / surface water / ground water.

**Ecotoxicity:** H410 Very toxic to aquatic life with long lasting effects.

**Toxicity:**

| | | |
|---|---|---|
| Polyamide wax<br>Proprietary | Value type | LC50 |
| | Value | > 0.2 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | carp |
| | Method | not specified |
| Polyamide wax<br>Proprietary | Value type | EL50 |
| | Value | 15.63 - 250 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Polyamide wax<br>Proprietary | Value type | ErC50 |
| | Value | 0.0012 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 48 h |
| | Species | Skeletonema costatum |
| | Method | ISO 10253 (Water quality) |
| | Value type | EC10 |
| | Value | 0.00087 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 48 h |
| | Species | Skeletonema costatum |
| | Method | ISO 10253 (Water quality) |
| Silica, amorphous, fumed, cryst.-free<br>112945-52-5 | Value type | LC50 |
| | Value | > 10,000 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Brachydanio rerio (new name: Danio rerio) |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Ethane-1,2-diol<br>107-21-1 | Value type | LC50 |
| | Value | 72,860 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Pimephales promelas |

| | | |
|---|---|---|
| | Method | EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians) |
| | Value type | NOEC |
| | Value | 15,380 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 7 d |
| | Species | Pimephales promelas |
| | Method | other guideline: |
| Ethane-1,2-diol 107-21-1 | Value type | EC50 |
| | Value | > 100 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Ethane-1,2-diol 107-21-1 | Value type | EC50 |
| | Value | > 6,500 - 13,000 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 96 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | NOEC |
| | Value | > 100 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Ethane-1,2-diol 107-21-1 | Value type | EC20 |
| | Value | > 1,995 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 30 min |
| | Species | activated sludge, domestic |
| | Method | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |
| Ethene, homopolymer 9002-88-4 | Value type | LC50 |
| | Value | > 100 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Leuciscus idus |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Ethene, homopolymer 9002-88-4 | Value type | EC0 |
| | Value | > 1,000 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 3 h |
| | Species | not specified |
| | Method | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Titanium dioxide 13463-67-7 | Value type | LC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Fish |
| | Exposure time | 48 h |
| | Species | Leuciscus idus |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Titanium dioxide 13463-67-7 | Value type | EC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Titanium dioxide 13463-67-7 | Value type | EC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | NOEC |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Titanium dioxide 13463-67-7 | Value type | EC0 |
| | Value | Toxicity > Water solubility |

| | | |
|---|---|---|
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 24 h |
| | Species | Pseudomonas fluorescens |
| | Method | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | Value type | LC50 |
| | Value | 3.9 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oncorhynchus mykiss |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | Value type | EC50 |
| | Value | 18.84 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | Value type | EC50 |
| | Value | 3.1 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Desmodesmus subspicatus (reported as Scenedesmus subspicatus) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | NOEC |
| | Value | 1 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Desmodesmus subspicatus (reported as Scenedesmus subspicatus) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | Value type | EC10 |
| | Value | 70 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 30 min |
| | Species | not specified |
| | Method | not specified |
| N,N-Diethyl-p-toluidine 613-48-9 | Value type | LC50 |
| | Value | 78.62 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Danio rerio |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| N,N-Diethyl-p-toluidine 613-48-9 | Value type | EC50 |
| | Value | 10.34 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| N,N-Diethyl-p-toluidine 613-48-9 | Value type | EC50 |
| | Value | 23.69 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,4-Naphthalenedione 130-15-4 | Value type | LC50 |
| | Value | 0.045 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oryzias latipes |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 1,4-Naphthalenedione 130-15-4 | Value type | EC50 |
| | Value | 0.026 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 1,4-Naphthalenedione 130-15-4 | Value type | NOEC |
| | Value | 0.07 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |

| | | |
|---|---|---|
| | Value type | EC50 |
| | Value | 0.42 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,4-Naphthalenedione 130-15-4 | Value type | EC50 |
| | Value | 5.94 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 3 h |
| | Species | activated sludge of a predominantly domestic sewage |
| | Method | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

**Persistence and degradability:**

| | | |
|---|---|---|
| Polyamide wax Proprietary | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 69.3 % |
| | Method | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| Ethane-1,2-diol 107-21-1 | Result | readily biodegradable |
| | Route of application | aerobic |
| | Degradability | > 90 - 100 % |
| | Method | OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test) |
| Ethene, homopolymer 9002-88-4 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 1 % |
| | Method | ISO 10708 (BODIS-Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 3 % |
| | Method | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| N,N-Diethyl-p-toluidine 613-48-9 | Result | not readily biodegradable. |
| | Route of application | not specified |
| | Degradability | 1 % |
| | Method | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| 1,4-Naphthalenedione 130-15-4 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 0 % |
| | Method | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |

**Bioaccumulative potential / Mobility in soil:**

| | | |
|---|---|---|
| Polyamide wax Proprietary | LogPow | 5.4 - 6.6 |
| | Temperature | 25 °C |
| | Method | EU Method A.8 (Partition Coefficient) |
| Ethane-1,2-diol 107-21-1 | LogPow | -1.36 |
| | Temperature | |
| | Method | QSAR (Quantitative Structure Activity Relationship) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | Bioconcentration factor (BCF) | 9.1 |
| | Exposure time | |
| | Species | calculation |
| | Temperature | |
| | Method | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | LogPow | 1.6 |
| | Temperature | 25 °C |
| | Method | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| N,N-Diethyl-p-toluidine 613-48-9 | LogPow | 3.7 |
| | Temperature | |
| | Method | QSAR (Quantitative Structure Activity Relationship) |
| 1,4-Naphthalenedione 130-15-4 | LogPow | 1.71 |
| | Temperature | |
| | Method | not specified |

## Section 13. Disposal considerations

**Product**

**Method of disposal:** Dispose of in accordance with local and national regulations.

**Packaging**

**Disposal of uncleaned packages:** Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

## Section 14. Transport information

**Road transport ADR:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Classification code: | M7 |
| Hazard ident. number: | 90 |
| UN no.: | 3077 |
| Label: | 9 |
| Technical name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diamid wax mixture) |

**Railroad transport RID:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Classification code: | M7 |
| Hazard ident. number: | 90 |
| UN no.: | 3077 |
| Label: | 9 |
| Technical name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diamid wax mixture) |

**Inland water transport ADN:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Classification code: | M7 |
| Hazard ident. number: | 90 |
| UN no.: | 3077 |
| Label: | 9 |
| Technical name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diamid wax mixture) |

**Marine transport IMDG:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| UN no.: | 3077 |
| Label: | 9 |
| EmS: | F-A ,S-F |
| Seawater pollutant: | Marine pollutant |
| Proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, |

N.O.S. (Diamid wax mixture)

**Air transport IATA:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Packaging instructions (passenger): | 956 |
| Packaging instructions (cargo): | 956 |
| UN no.: | 3077 |
| Label: | 9 |
| Proper shipping name: | Environmentally hazardous substance, solid, n.o.s. (Diamid wax mixture) |

**Further information for transport:**

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG), NZ 4.3(10) may be applied, which can result in a deviation from the transport classification for packed goods.

## Section 15. Regulatory information

**Regulatory Information:** This Safety Data Sheet has been generated based on Circular No 32/2017/TT-BCT, December 28, 2017 (Regulations On The Classification And Labeling Of Chemicals) only.

**Global inventory status:**

| Regulatory list | Notification |
|---|---|
| TSCA | yes |
| DSL | yes |
| KECI (KR) | yes |
| AIIC | yes |
| NZIOC | yes |
| IECSC | yes |
| TCSI | yes |

## Section 16. Other information

**Disclaimer:**

This Safety Data Sheet has been generated based on Circular No 32/2017/TT-BCT, December 28, 2017 (Regulations On The Classification And Labeling Of Chemicals) only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.
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