## Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:**
LOCTITE 510 TTL250ML CZ/HU/SK/SI

**Other means of identification:**
LOCTITE 510 TTL250ML CZ/HU/SK/SI

**Product code:**
IDH149346
**Recommended use of the chemical and restrictions on use**

**Intended use:**
Adhesive
**Manufacturer/Importer/Distributor Representative Company**
Henkel Thailand Ltd. The Offices at Centralworld,
35th Floor, 999/9 Rama 1 Rd.,
Kwang Patumwan, Khet Patumwan,
10330 Bangkok

Thailand

Phone: +66 (2209) 8000
Fax-no.: +66 (2209) 8008

**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: +662 209 8008

## Section 2. Hazards identification

**GHS Classification:**

| Hazard Class | Hazard Category | Route of Exposure | Target organ |
|---|---|---|---|
| Acute toxicity | Category 4 | Inhalation | |
| Serious eye damage/eye irritation | Category 2 | | |
| Skin sensitizer | Category 1 | | |
| Specific target organ toxicity - single exposure | Category 3 | | respiratory tract irritation |
| 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.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

**Precaution:**

**Prevention:**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
**Response:**
P302+P352 IF ON SKIN: Wash with plenty of water.
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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
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 |
|---|---|---|
| 1,1'-(methylenedi-p-phenylene)bismaleimide<br>13676-54-5 | 1- 10 % | Acute toxicity 3; Inhalation<br>H331<br>Skin sensitizer 1A<br>H317<br>Chronic hazards to the aquatic environment 1<br>H410 |
| Silica, amorphous, fumed, cryst.-free<br>112945-52-5 | 1- 10 % | |
| α, α-dimethylbenzyl hydroperoxide<br>80-15-9 | 1- 10 % | 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 1<br>H314<br>Specific target organ toxicity - 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 |
| Acetic acid, 2-phenylhydrazide<br>114-83-0 | 0.1- 1 % | Acute toxicity 4; Oral<br>H302<br>Skin sensitizer 1<br>H317<br>Carcinogenicity 2<br>H351<br>Acute hazards to the aquatic environment 1<br>H400<br>Chronic hazards to the aquatic environment 1<br>H410 |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride<br>3068-39-1 | < 0.1 % | Acute toxicity 4; Oral<br>H302<br>Acute toxicity 2; Inhalation<br>H330<br>Acute toxicity 5; Dermal<br>H313<br>Serious eye damage/eye irritation 1<br>H318<br>Skin sensitizer 1B<br>H317<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:**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

## Section 5. Fire fighting measures

**Suitable extinguishing media:**
water, carbon dioxide, foam, powder

**Improper extinguishing media:**
High pressure waterjet

**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.

**Additional fire fighting advice:**
In case of fire, keep containers cool with water spray.

## Section 6. Accidental release measures

**Personal precautions:**
Avoid skin and eye contact.
Ensure adequate ventilation.
Wear protective equipment.
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.
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.
See advice in section 8
Avoid skin and eye contact.

**Storage:**
Refer to Technical Data Sheet.
Keep container tightly sealed.

## Section 8. Exposure controls / personal protection

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

| | | |
|---|---|---|
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles 112945-52-5 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 3 |
| | **Remarks** | ACGIH |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles 112945-52-5 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 10 |
| | **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:**
Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.
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:** | Pink<br>liquid |
| **Odor:** | Acrylic |
| **Odor threshold (CA):** | No data available. |
| **pH:** | Not applicable, Product is non-soluble (in water). |
| **Melting point / freezing point:** | Not applicable, Product is a liquid |

| | |
|---|---|
| **Specific gravity:** | 1.178 |
| **Boiling point:** | > 150 °C (> 302 °F) |
| **Flash point:** | > 93 °C (> 199.4 °F) |
| (Estimated) | |
| **Evaporation rate:** | Not available. |
| **Flammability (solid, gas):** | No data available. |
| **Lower explosive limit:** | No data available. |
| **Upper explosive limit:** | No data available. |
| **Vapor pressure:** | < 5 mm hg |
| (; 27 °C (80.6 °F)no method / method unknown; 50 °C (122 °F); 20 °C (68 °F)) | < 300 mbar<br>< 10 hPa |
| **Vapor density:** | > 1 |
| **Density:** | 1.178 g/cm3 |
| **Solubility:** | Not soluble (20 °C) |
| **Partition coefficient: n-octanol/water:** | No data available. |
| **Auto ignition:** | Not available. |
| **Decomposition temperature:** | No data available. |
| **Viscosity:** | 40,000 - 140,000 mPa.s (; 25 °C (77 °F); Method: ;; LCT STM 10; Viscosity Brookfield) |
| | 200,000 - 750,000 mPa.s (; 20 °C (68 °F); Method: ;; LCT STM 10; Viscosity Brookfield) |
| **VOC content:** (2010/75/EC) | < 3 % 35.3 g/l |

## Section 10. Stability and reactivity

**Reactivity/Incompatible materials:**
Reacts with strong oxidants.
Acids.
Reducing agents.
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.
Hydrocarbons
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) : 2.42 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Calculation method |

**Dermal toxicity:** Acute toxicity estimate (ATE) : > 2,000 mg/kg
Method: Calculation method

**Health Effects:**
Skin: May cause an allergic skin reaction.
Eyes: Causes serious eye irritation.
Inhalation: Harmful if inhaled.
May cause respiratory tract irritation.
Symptoms of Overexposure**:** None known.

**Acute oral toxicity:**

| | | |
|---|---|---|
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 423 (Acute Oral toxicity) |
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | Value type | LD50 |
| | Value | > 5,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 401 (Acute Oral Toxicity) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | Value type | LD50 |
| | Value | 382 mg/kg |
| | Species | rat |
| | Method | other guideline: |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Value type | LD50 |
| | Value | 310 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | Value type | LD50 |
| | Value | 449 mg/kg |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

**Acute inhalative toxicity:**

| | | |
|---|---|---|
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | Value type | LC50 |
| | Value | 0.515 - 1 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method) |
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | Value type | Acute toxicity estimate (ATE) |
| | Value | 0.515 mg/l |
| | Exposure time | |
| | Species | |
| | Method | Expert judgement |
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | Value type | LC0 |
| | Value | 0.139 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | not specified |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | Value type | LC50 |
| | Value | 1.370 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | not specified |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | Value type | LC50 |
| | Value | > 0.05 - 0.5 mg/l |
| | Exposure time | 4 h |
| | Species | rat |
| | Method | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Acute dermal toxicity:**

| | | |
|---|---|---|
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | Value type | LD50 |
| | Value | > 5,400 mg/kg |
| | Species | rat |
| | Method | not specified |
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rabbit |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | Value type | Acute toxicity estimate (ATE) |
| | Value | 1,100 mg/kg |
| | Species | |
| | Method | Expert judgement |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | Value type | LD50 |
| | Value | 2,500 mg/kg |
| | Species | rat |
| | Method | not specified |

**Skin corrosion/irritation:**

| | | |
|---|---|---|
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | Result | not irritating |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| α, α-dimethylbenzyl hydroperoxide 80-15-9 | Result | corrosive |
| | Exposure time | |
| | Species | rabbit |
| | Method | Draize Test |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Result | not corrosive |
| | Exposure time | |
| | Species | Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE) |
| | Method | OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Result | not irritating |
| | Exposure time | |
| | Species | Human, EpiSkinTM (SM), Reconstructed Human Epidermis |

| | | |
|---|---|---|
| | | (RHE) |
| | Method | OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method) |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | Result | not irritating |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

| | | |
|---|---|---|
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Result | not irritating |
| | Exposure time | |
| | Species | Chicken, eye, isolated |
| | Method | OECD Guideline 438 (Isolated Chicken Eye Test Method) |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | Result | corrosive |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

| | | |
|---|---|---|
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | Result | sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | OECD Guideline 406 (Skin Sensitisation) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Result | positive |
| | Test type | Direct peptide reactivity assay (DPRA) |
| | Species | cysteine and lysine, in chemico test |
| | Method | OECD Guideline 442C (Direct Peptide Reactivity Assay (DPRA)) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Result | positive |
| | Test type | Activation of keratinocytes |
| | Species | human keratinocytes, in vitro test |
| | Method | OECD Guideline 442D (ARE-Nrf2 Luciferase Test Method) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Result | positive |
| | Test type | activation of dendritic cells |
| | Species | human monocytes, in vitro test |
| | Method | OECD Guideline 442E (H-CLAT: Human Cell Line Activation Test) |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | Result | Sub-Category 1B (sensitising) |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

**Germ cell mutagenicity:**

| | | |
|---|---|---|
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian cell micronucleus test |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | 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) |
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| | Method | OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay) |
| Silica, amorphous, fumed, cryst.-free 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 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 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 |
| α, α-dimethylbenzyl hydroperoxide 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 80-15-9 | Result | negative |
| | Type of study / Route of administration | dermal |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | not specified |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Result | positive |
| | 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) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian cell micronucleus test |
| | Metabolic activation / Exposure time | with and without |
| | Method | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |

**Repeated dose toxicity:**

| | | |
|---|---|---|
| α, α-dimethylbenzyl hydroperoxide 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:**

| | | |
|---|---|---|
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | Value type | LC50 |
| | Value | Toxicity > Water solubility |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oncorhynchus mykiss |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| | Value type | NOEC |
| | Value | 0.043 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 33 d |
| | Species | Pimephales promelas |
| | Method | OECD Guideline 210 (fish early lite stage toxicity test) |
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | 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) |
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | 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) |
| | 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) |
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | Value type | EC50 |
| | Value | Toxicity > Water solubility |
| | 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) |
| Silica, amorphous, fumed, cryst.-free 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) |
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | Value type | EL50 |
| | Value | > 10,000 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 24 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | Value type | EC50 |
| | Value | > 173 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Desmodesmus subspicatus |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Silica, amorphous, fumed, cryst.-free 112945-52-5 | Value type | EC50 |
| | Value | > 2,500 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) |
| 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 |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Value type | EC50 |
| | Value | 1.1 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Value type | EC50 |
| | Value | 0.258 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | NOEC |
| | Value | 0.012 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | Value type | LC50 |
| | Value | 6.85 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Leuciscus idus |
| | Method | DIN 38412-15 |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | Value type | EC50 |
| | Value | 1 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | Value type | EC50 |
| | Value | 0.023 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | NOEC |
| | Value | 0.014 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |

| | | |
|---|---|---|
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | Value type | EC50 |
| | Value | 33 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 3 h |
| | Species | activated sludge |
| | Method | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

**Persistence and degradability:**

| | | |
|---|---|---|
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 0 % |
| | Method | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry 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) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 39 % |
| | Method | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 2 - 5 % |
| | Method | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |

**Bioaccumulative potential / Mobility in soil:**

| | | |
|---|---|---|
| 1,1'-(methylenedi-p-phenylene)bismaleimide 13676-54-5 | LogPow | 1.5 |
| | Temperature | 25 °C |
| | Method | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| 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) |
| Acetic acid, 2-phenylhydrazide 114-83-0 | LogPow | 0.74 |
| | Temperature | |
| | Method | QSAR (Quantitative Structure Activity Relationship) |
| 3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride 3068-39-1 | LogPow | 1.7 |
| | Temperature | 20 °C |
| | Method | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

## 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: | M6 |
| Hazard ident. number: | 90 |
| UN no.: | 3082 |
| Label: | 9 |
| Technical name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,1'-(Methylenedi-p-phenylene)bismaleimide) |

**Railroad transport RID:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Classification code: | M6 |
| Hazard ident. number: | 90 |
| UN no.: | 3082 |
| Label: | 9 |
| Technical name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,1'-(Methylenedi-p-phenylene)bismaleimide) |

**Inland water transport ADN:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Classification code: | M6 |
| Hazard ident. number: | 90 |
| UN no.: | 3082 |
| Label: | 9 |
| Technical name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,1'-(Methylenedi-p-phenylene)bismaleimide) |

**Marine transport IMDG:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| UN no.: | 3082 |
| Label: | 9 |
| EmS: | F-A ,S-F |
| Seawater pollutant: | Marine pollutant |
| Proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,1'-(Methylenedi-p-phenylene)bismaleimide) |

**Air transport IATA:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Packaging instructions (passenger): | 964 |
| Packaging instructions (cargo): | 964 |
| UN no.: | 3082 |
| Label: | 9 |
| Proper shipping name: | Environmentally hazardous substance, liquid, n.o.s. (1,1'-(Methylenedi-p-phenylene)bismaleimide) |

**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:**

Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

**Global inventory status:**

| Regulatory list | Notification |
|---|---|
| TCSI | yes |
| TSCA | yes |
| DSL | yes |
| ISHL (JP) | yes |
| KECI (KR) | yes |
| PICCS (PH) | yes |
| IECSC | yes |
| NZIOC | yes |

## Section 16. Other information

**Disclaimer:**

This Safety Data Sheet has been generated based on Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555 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.

Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your_company.com).