LOCTITE 4311 LIGHT CURE ADHESIVE known as LOCTITE® 4311™ LIGHT CURE AD

SDS No. : 379229
V001.5
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## Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** LOCTITE 4311 LIGHT CURE ADHESIVE known as LOCTITE® 4311™ LIGHT CURE AD

**Other means of identification:** LOCTITE 4311 BO1OZEN
**Product code:** IDH1401791
**Recommended use of the chemical and restrictions on use**

**Intended use:** Cyanoacrylate

**Manufacturer/Importer/Distributor Representative Company**

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**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 corrosion/irritation | Category 2 | |
| Serious eye damage/eye irritation | Category 2 | |
| Toxic to reproduction | Category 1B | |
| Specific target organ toxicity - single exposure | Category 3 | respiratory tract irritation |
| Chronic hazards to the aquatic environment | Category 3 | |

**GHS label elements:**

**Hazard pictogram:**



**Signal word:** Danger

| | |
|---|---|
| **Hazard statement:** | H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>H335 May cause respiratory irritation.<br>H360 May damage fertility or the unborn child.<br>H412 Harmful to aquatic life with long lasting effects. |

**Precaution:**

| | |
|---|---|
| **Prevention:** | P201 Obtain special instructions before use.<br>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 Wash hands thoroughly after handling.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection. |
| **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>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P308+P313 IF exposed or concerned: Get medical advice/attention.<br>P332+P313 If skin irritation occurs: Get medical advice/attention.<br>P337+P313 If eye irritation persists: Get medical advice/attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse. |
| **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 |
|---|---|---|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | 60- 100 % | Flammable liquids 4<br>H227<br>Skin corrosion/irritation 2<br>H315<br>Serious eye damage/eye irritation 2A<br>H319<br>Target Organ Systemic Toxicant - Single exposure 3<br>H335 |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | 0.1- 1 % | Skin Sensitization 1B<br>H317<br>Reproductive toxicant. 1B<br>H360<br>Acute hazards to the aquatic environment 2<br>H401<br>Chronic hazards to the aquatic environment 2<br>H411 |
| Fluoranthene<br>206-44-0 | < 0.1 % | Acute toxicity 4; Oral<br>H302<br>Acute toxicity 5; Dermal<br>H313<br>Acute hazards to the aquatic environment 1<br>H400<br>Chronic hazards to the aquatic environment 1<br>H410 |
| Hydroquinone<br>123-31-9 | < 0.1 % | Acute toxicity 4; Oral<br>H302<br>Serious eye damage/eye irritation 1<br>H318<br>Skin Sensitization 1<br>H317<br>Germ cell mutagenicity 2<br>H341<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 |
| Dicyclopentadienyl iron<br>102-54-5 | < 0.1 % | Flammable solids 1<br>H228<br>Acute toxicity 4; Oral<br>H302<br>Reproductive toxicant. 1B<br>H360<br>Specific target organ toxicity - repeated exposure 1<br>H372<br>Acute hazards to the aquatic environment 2<br>H401<br>Chronic hazards to the aquatic environment 1<br>H410 |

## Section 4. First aid measures

**Inhalation:** Move to fresh air, consult doctor if complaint persists.

| | |
|---|---|
| **Skin contact:** | Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water.<br>Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn.<br>Burns should be treated normally after the adhesive has been removed from the skin.<br>If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth.<br>Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action. |
| **Eye contact:** | If the eye is bonded closed, release eyelashes with warm water by covering with wet pad.<br>Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive.<br>Keep eye covered until debonding is complete, usually within 1-3 days.<br>Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause any abrasive damage. |
| **Ingestion:** | Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours). |
| **Indication of immediate medical attention and special treatment needed:** | See section: Description of first aid measures |

## Section 5. Fire fighting measures

| | |
|---|---|
| **Suitable extinguishing media:** | Foam, extinguishing powder, carbon dioxide.<br>Fine water spray |
| **Improper extinguishing media:** | High pressure waterjet |
| **Specific hazards arising from the chemical:** | Formation of toxic gases is possible during heating or in fires.<br>In case of fire, keep containers cool with water spray. |
| **Special protection equipment and precautions for firefighters:** | Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). |
| **Hazardous combustion products:** | Oxides of carbon, oxides of nitrogen, irritating organic vapors. |

## Section 6. Accidental release measures

| | |
|---|---|
| **Personal precautions:** | Ensure adequate ventilation. |
| **Environmental precautions:** | Do not let product enter drains. |
| **Clean-up methods:** | Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.<br>Dispose of contaminated material as waste according to Section 13. |

## Section 7. Handling and storage

| | |
|---|---|
| **Handling:** | Ventilation (low level) is recommended when using large volumes<br>Use of dispensing equipment is recommended to minimise the risk of skin or eye contact<br>Avoid skin and eye contact.<br>See advice in section 8 |

## Section 8. Exposure controls / personal protection

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

| | | |
|---|---|---|
| Cyanoacrylates, Ethyl<br>7085-85-0 | **Value type** | Short Term Exposure Limit (STEL): |
| | **ppm** | 1 |
| | **Remarks** | ACGIH |
| Cyanoacrylates, Ethyl<br>7085-85-0 | **Value type** | Time Weighted Average (TWA): |
| | **ppm** | 0.2 |
| | **Remarks** | ACGIH |
| HYDROQUINONE<br>123-31-9 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 1 |
| | **Remarks** | ACGIH |
| Hydroquinone; 1,4-Dihydroxybenzene<br>123-31-9 | **Value type** | Short-term exposure limit (STEL): |
| | **mg/m³** | 1.5 |
| | **Remarks** | VN OEL |
| Hydroquinone; 1,4-Dihydroxybenzene<br>123-31-9 | **Value type** | Time Weighted Average (TWA): |
| | **mg/m³** | 0.5 |
| | **Remarks** | VN OEL |
| DICYCLOPENTADIENYL IRON, AS FE<br>102-54-5 | **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:**
Do not use PVC, rubber or nylon gloves.
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.
Polyethylene or polypropylene gloves are recommended when using large volumes.

**Eye protection:**
Wear protective glasses.

**Body protection:**
Wear suitable protective clothing.

**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:** | Blue, Green, Yellow<br>liquid |
| **Odor:** | Irritating |
| **Odor threshold (CA):** | No data available. |
| **pH:** | Not applicable, Product reacts with water. |
| **Melting point / freezing point:** | Not applicable, Product is a liquid |
| **Specific gravity:** | 1.0889 |
| **Boiling point:** | > 149 °C (> 300.2 °F) |
| **Flash point:** | 80 - 93 °C (176 - 199.4 °F) |
| **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:**<br>(no method / method unknown; 50 °C (122 °F)) | < 0.2 mm hg<br>< 700 mbar |
| **Vapor density:** | > 4<br>Approximately |
| **Density:** | 1.1 g/cm3 |
| **Solubility:** | Polymerises in presence of water. |
| **Partition coefficient: n-octanol/water:** | No data available. |
| **Auto ignition:** | 485 °C |
| **Decomposition temperature:** | No data available. |
| **Viscosity:** | No data available. |
| **VOC content:**<br>(2010/75/EC) | < 3 % |

## Section 10. Stability and reactivity

| | |
|---|---|
| **Reactivity/Incompatible materials:** | Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols. |
| **Chemical stability:** | Stable under recommended storage conditions. |
| **Possibility of hazardous reactions:** | Rapid polymerization may generate excessive heat and pressure. |
| **Conditions to avoid:** | No decomposition if stored and applied as directed. |
| **Hazardous decomposition products:** | carbon oxides.<br>Hydrocarbons<br>nitrogen oxides |

## Section 11. Toxicological information

Symptoms of Overexposure**:** EYE: Irritation, conjunctivitis.
SKIN: Redness, inflammation.
RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

**Acute oral toxicity:**

| | | |
|---|---|---|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | Value type | LD50 |
| | Value | > 5,000 mg/kg |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 423 (Acute Oral toxicity) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Value type | LD50 |
| | Value | > 5,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 401 (Acute Oral Toxicity) |
| Fluoranthene<br>206-44-0 | Value type | LD50 |
| | Value | 2,000 mg/kg |
| | Species | rat |
| | Method | not specified |
| Hydroquinone<br>123-31-9 | Value type | LD50 |
| | Value | 367 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 401 (Acute Oral Toxicity) |
| Dicyclopentadienyl iron<br>102-54-5 | Value type | LD50 |
| | Value | 1,320 mg/kg |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

**Acute dermal toxicity:**

| | | |
|---|---|---|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rabbit |
| | Method | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |
| Fluoranthene<br>206-44-0 | Value type | LD50 |
| | Value | 3,180 mg/kg |
| | Species | rabbit |
| | Method | not specified |
| Hydroquinone<br>123-31-9 | Value type | LD50 |
| | Value | > 2,000 mg/kg |
| | Species | rabbit |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |
| Dicyclopentadienyl iron<br>102-54-5 | Value type | LD50 |
| | Value | > 3,000 mg/kg |
| | Species | rat |
| | Method | OECD Guideline 402 (Acute Dermal Toxicity) |

**Skin corrosion/irritation:**

| | | |
|---|---|---|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | Result | slightly irritating |
| | Exposure time | 24 h |
| | Species | rabbit |
| | Method | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Result | not irritating |
| | Exposure time | 24 h |
| | Species | rabbit |
| | Method | not specified |
| Hydroquinone<br>123-31-9 | Result | not irritating |
| | Exposure time | 24 h |
| | Species | rabbit |
| | Method | Weight of evidence |
| Dicyclopentadienyl iron<br>102-54-5 | Result | not irritating |
| | Exposure time | 4 h |
| | Species | rabbit |
| | Method | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

| | | |
|---|---|---|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | Result | irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | not specified |
| Hydroquinone<br>123-31-9 | Result | corrosive |
| | Exposure time | |
| | Species | human |
| | Method | Weight of evidence |
| Dicyclopentadienyl iron<br>102-54-5 | Result | not irritating |
| | Exposure time | |
| | Species | rabbit |
| | Method | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

| | | |
|---|---|---|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | Result | not sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Result | sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Hydroquinone<br>123-31-9 | Result | sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| Hydroquinone<br>123-31-9 | Result | sensitising |
| | Test type | Mouse local lymphnode assay (LLNA) |
| | Species | mouse |
| | Method | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Dicyclopentadienyl iron<br>102-54-5 | Result | not sensitising |
| | Test type | Guinea pig maximisation test |
| | Species | guinea pig |
| | Method | OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

| | | |
|---|---|---|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Ethyl 2-cyanoacrylate<br>7085-85-0 | 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) |
| Ethyl 2-cyanoacrylate<br>7085-85-0 | 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) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | 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) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | 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) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | 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) |
| Hydroquinone<br>123-31-9 | Result | negative |
| | Type of study / Route of administration | bacterial reverse mutation assay (e.g Ames test) |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Hydroquinone<br>123-31-9 | 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) |
| Hydroquinone<br>123-31-9 | Result | positive |
| | 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) |
| Hydroquinone<br>123-31-9 | Result | positive |
| | Type of study / Route of administration | intraperitoneal |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Hydroquinone<br>123-31-9 | Result | negative |
| | Type of study / Route of administration | oral: gavage |
| | Metabolic activation / Exposure time | |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) |
| Hydroquinone<br>123-31-9 | Result | positive |
| | Type of study / Route of administration | intraperitoneal |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | equivalent or similar to OECD Guideline 483 (Mammalian Spermatogonial Chromosome Aberration Test) |
| Dicyclopentadienyl iron<br>102-54-5 | 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) |
| Dicyclopentadienyl iron<br>102-54-5 | Result | negative |
| | Type of study / Route of administration | in vitro mammalian chromosome aberration test |
| | Metabolic activation / Exposure time | with and without |
| | Method | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Dicyclopentadienyl iron<br>102-54-5 | 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) |
| Dicyclopentadienyl iron<br>102-54-5 | Result | negative |
| | Type of study / Route of administration | oral: unspecified |
| | Metabolic activation / Exposure time | |
| | Species | mouse |
| | Method | EU Method B.12 (Mutagenicity |

**Repeated dose toxicity:**

| | | |
|---|---|---|
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide<br>75980-60-8 | Result | NOAEL=100 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | 3 m5 d/w |
| | Species | rat |
| | Method | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Hydroquinone<br>123-31-9 | Result | NOAEL=50 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | 13 w5 d/w |
| | Species | rat |
| | Method | not specified |
| Hydroquinone<br>123-31-9 | Result | NOAEL=73.9 mg/kg |
| | Route of application | dermal |
| | Exposure time / Frequency of treatment | 13 w6 h/d, 5 d/w |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
| Dicyclopentadienyl iron<br>102-54-5 | Result | LOAEL=30 mg/kg |
| | Route of application | oral: capsule |
| | Exposure time / Frequency of treatment | 180 ddaily |
| | Species | dog |
| | Method | not specified |
| Dicyclopentadienyl iron<br>102-54-5 | Result | NOAEL=5 mg/kg |
| | Route of application | oral: gavage |
| | Exposure time / Frequency of treatment | 28 ddaily |
| | Species | rat |
| | Method | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
| Dicyclopentadienyl iron<br>102-54-5 | Result | LOAEL=0.003 mg/l |
| | Route of application | inhalation: vapour |
| | Exposure time / Frequency of treatment | 13 weeks6 h / d, 5 d / week |
| | Species | rat |
| | Method | equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day) |

## Section 12. Ecological information

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

**Ecotoxicity:** H412 Harmful to aquatic life with long lasting effects.

**Toxicity:**

| | | |
|---|---|---|
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | Value type | LC50 |
| | Value | 1.4 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Cyprinus carpio |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | Value type | EC50 |
| | Value | 3.53 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | Value type | EC50 |
| | Value | > 2.01 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | EC10 |
| | Value | 1.56 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | Value type | EC50 |
| | Value | > 1,000 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 30 min |
| | Species | |
| | Method | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Fluoranthene 206-44-0 | Value type | LC50 |
| | Value | 0.0077 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oncorhynchus mykiss |
| | Method | not specified |
| | Value type | EC10 |
| | Value | 0.018 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 41 d |
| | Species | Danio rerio |
| | Method | not specified |
| Fluoranthene 206-44-0 | Value type | LC50 |
| | Value | 0.0016 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | not specified |
| Fluoranthene 206-44-0 | Value type | EC10 |
| | Value | 0.0086 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Pseudokirchneriella subcapitata |
| | Method | not specified |
| Hydroquinone 123-31-9 | Value type | LC50 |
| | Value | 0.638 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 96 h |
| | Species | Oncorhynchus mykiss |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| | Value type | NOEC |
| | Value | 0.066 mg/l |
| | Acute Toxicity Study | Fish |

| | | |
|---|---|---|
| | Exposure time | 32 d |
| | Species | Pimephales promelas |
| | Method | OECD Guideline 210 (fish early life stage toxicity test) |
| Hydroquinone 123-31-9 | Value type | EC50 |
| | Value | 0.134 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydroquinone 123-31-9 | Value type | EC50 |
| | Value | 0.330 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) |
| | Value type | NOEC |
| | Value | 0.019 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) |
| Hydroquinone 123-31-9 | Value type | EC50 |
| | Value | 71 mg/l |
| | Acute Toxicity Study | Bacteria |
| | Exposure time | 2 h |
| | Species | activated sludge of a predominantly domestic sewage |
| | Method | other guideline: |
| Dicyclopentadienyl iron 102-54-5 | Value type | LC50 |
| | Value | 24.5 mg/l |
| | Acute Toxicity Study | Fish |
| | Exposure time | 48 h |
| | Species | Leuciscus idus melanotus |
| | Method | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Dicyclopentadienyl iron 102-54-5 | Value type | EC50 |
| | Value | > 1.5 - 2.5 mg/l |
| | Acute Toxicity Study | Daphnia |
| | Exposure time | 48 h |
| | Species | Daphnia magna |
| | Method | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Dicyclopentadienyl iron 102-54-5 | Value type | EC50 |
| | Value | 1.03 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Desmodesmus subspicatus |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | Value type | EC10 |
| | Value | 0.14 mg/l |
| | Acute Toxicity Study | Algae |
| | Exposure time | 72 h |
| | Species | Desmodesmus subspicatus |
| | Method | OECD Guideline 201 (Alga, Growth Inhibition Test) |

**Persistence and degradability:**

| | | |
|---|---|---|
| Ethyl 2-cyanoacrylate 7085-85-0 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 57 % |
| | Method | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 0 - 10 % |
| | Method | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Fluoranthene 206-44-0 | Result | not readily biodegradable. |
| | Route of application | not specified |
| | Degradability | > 0 - < 60 % |
| | Method | OECD 301 A - F |

| | | |
|---|---|---|
| Hydroquinone 123-31-9 | Result | readily biodegradable |
| | Route of application | aerobic |
| | Degradability | > 75 - 81 % |
| | Method | EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test) |
| Dicyclopentadienyl iron 102-54-5 | Result | not readily biodegradable. |
| | Route of application | aerobic |
| | Degradability | 56 % |
| | Method | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| | Result | inherently biodegradable |
| | Route of application | aerobic |
| | Degradability | 73 % |
| | Method | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |

**Bioaccumulative potential / Mobility in soil:**

| | | |
|---|---|---|
| Ethyl 2-cyanoacrylate 7085-85-0 | LogPow | 0.776 |
| | Temperature | 22 °C |
| | Method | EU Method A.8 (Partition Coefficient) |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | Bioconcentration factor (BCF) | 72 |
| | Exposure time | 8.000 Weeks |
| | Species | Cyprinus carpio |
| | Temperature | |
| | Method | Flow through |
| diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75980-60-8 | LogPow | 3.1 |
| | Temperature | 23 °C |
| | Method | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Fluoranthene 206-44-0 | Bioconcentration factor (BCF) | 5,920 |
| | Exposure time | |
| | Species | Mytilus edulis |
| | Temperature | |
| | Method | not specified |
| Fluoranthene 206-44-0 | LogPow | 5.2 |
| | Temperature | 25 °C |
| | Method | not specified |
| Hydroquinone 123-31-9 | LogPow | 0.59 |
| | Temperature | |
| | Method | EU Method A.8 (Partition Coefficient) |
| Dicyclopentadienyl iron 102-54-5 | LogPow | 3.711 |
| | Temperature | 22 °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:**
Not dangerous goods

**Railroad transport RID:**
Not dangerous goods

**Inland water transport ADN:**
Not dangerous goods

**Marine transport IMDG:**
Not dangerous goods

**Air transport IATA:**

| | |
|---|---|
| Class: | 9 |
| Packing group: | III |
| Packaging instructions (passenger): | 964 |
| Packaging instructions (cargo): | 964 |
| UN no.: | 3334 |
| Label: | 9 |
| Proper shipping name: | Aviation regulated liquid, n.o.s. (Cyanoacrylate ester) |
| Additional Information IATA: | Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted. |

## Section 15. Regulatory information

**Regulatory Information:** This Safety Data Sheet has been generated based on

LAW ON CHEMICALS No. 69/2025/QH15, issued on June 14, 2025;

Decree No. 24/2026/NĐ-CP, issued on January 17, 2026, ON THE LISTS OF CHEMICALS GOVERNED BY THE LAW ON CHEMICALS;

Decree No. 25/2026/NĐ-CP, issued on January 17, 2026, DETAILED REGULATIONS AND MEASURES FOR ORGANIZING AND GUIDING THE IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS CONCERNING THE DEVELOPMENT OF THE CHEMICAL INDUSTRY AND CHEMICAL SAFETY AND SECURITY;

Decree No. 26/2026/NĐ-CP, issued on January 17, 2026, DETAILED REGULATIONS AND GUIDELINES FOR IMPLEMENTING CERTAIN ARTICLES OF THE LAW ON CHEMICALS REGARDING THE MANAGEMENT OF CHEMICAL ACTIVITIES AND HAZARDOUS CHEMICALS IN PRODUCTS AND GOODS;

Circular No. 01/2026/TT-BCT, issued on January 17, 2026, DETAILED REGULATIONS AND GUIDELINES FOR IMPLEMENTING CERTAIN ARTICLES OF THE LAW ON CHEMICALS AND GOVERNMENT DECREE NO. 26/2026/ND-CP DETAILING AND GUIDING THE IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS REGARDING THE MANAGEMENT OF CHEMICAL ACTIVITIES AND HAZARDOUS CHEMICALS IN PRODUCTS AND GOODS;

Circular No. 02/2026/TT-BCT, issued on January 17, 2026, REGULATIONS ON SOME IMPLEMENTATION MEASURES OF THE LAW ON CHEMICALS AND GOVERNMENT DECREE NO. 25/2026/ND-CP DETAILING AND PROVIDING MEASURES FOR ORGANIZING AND GUIDING THE IMPLEMENTATION OF SOME ARTICLES OF THE LAW ON CHEMICALS CONCERNING THE DEVELOPMENT OF THE CHEMICAL INDUSTRY AND CHEMICAL SAFETY AND SECURITY;

Decree No. 161/2024/ND-CP, issued on December 18, 2024, ON LIST OF DANGEROUS GOODS, TRANSPORT OF DANGEROUS GOODS AND PROCEDURES FOR ISSUANCE OF LICENSES OR CERTIFICATES OF COMPLETION OF TRAINING PROGRAMS FOR DRIVERS OR ESCORTS TRANSPORTING DANGEROUS GOODS BY ROAD;

Decree No. 34/2024/NĐ-CP, issued on March 31, 2024, ON LIST OF DANGEROUS GOODS, TRANSPORT OF DANGEROUS GOODS BY INLAND WATERCRAFT;

Decree No. 33/2024/NĐ-CP, issued on March 27, 2024, IMPLEMENTING THE CONVENTION ON THE PROHIBITION OF THE DEVELOPMENT, PRODUCTION, STOCKPILING AND USE OF CHEMICAL WEAPONS AND ON THEIR;

Decree No. 37/2026/NĐ-CP, issued on January 23, 2026, ELABORATING CERTAIN ARTICLES AND MEASURES FOR ORGANIZING AND GUIDING THE IMPLEMENTATION OF THE LAW ON PRODUCT AND GOODS QUALITY.

If other regulatory information applies that is not already provided or updated elsewhere in this Safety Data Sheet, then it is described in this subsection.

**Global inventory status:**

| Regulatory list | Notification |
|---|---|
| TCSI | yes |
| TSCA | yes |
| AIIC | yes |
| DSL | yes |
| ENCS (JP) | yes |
| ISHL (JP) | yes |
| IECSC | yes |

## Section 16. Other information

**Disclaimer:**

This Safety Data Sheet has been generated based on Law On Chemicals No. 69/2025/QH15; Decree No. 24/2026/NĐ-CP; Decree No. 25/2026/NĐ-CP; Decree No. 26/2026/NĐ-CP; Circular No. 01/2026/TT-BCT; Circular No. 02/2026/TT-BCT; Decree No. 161/2024/ND-CP; Decree No. 34/2024/NĐ-CP; Decree No. 33/2024/NĐ-CP, and Decree No. 37/2026/NĐ-CP.
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