



## Safety Data Sheet according to Regulation (EC) No 1907/2006

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LOCTITE 495

SDS No. : 427632

V001.1

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Replaces version from: 28.03.2017

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

#### 1.1. Product identifier

LOCTITE495

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

Intended use:

Adhesive

#### 1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

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40589 Düsseldorf

Germany

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ua-productsafety.de@henkel.com

#### 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation.

Target organ: respiratory tract irritation

#### 2.2. Label elements

##### Label elements (CLP):

##### Hazard pictogram:



Contains

Ethyl 2-cyanoacrylate

|  |  |
|--|--|
| <b>Signal word:</b>                        | Warning  |
| <b>Hazard statement:</b>                   | H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>H335 May cause respiratory irritation.  |
| <b>Supplemental information</b>            | EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.   |
| <b>Precautionary statement: Prevention</b> | P261 Avoid breathing vapors.<br>P280 Wear protective gloves/eye protection.  |
| <b>Precautionary statement: Response</b>   | 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>P337+P313 If eye irritation persists: Get medical advice/attention. |
| <b>Precautionary statement: Disposal</b>   | P501 Dispose of waste and residues in accordance with local authority requirements.  |

**2.3. Other hazards**

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****General chemical description:**

Cyanoacrylate Adhesive

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No.    | EC Number<br>REACH-Reg No.    | content       | Classification   |
|------------------------------------|-------------------------------|---------------|--|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | 230-391-5<br>01-2119527766-29 | 50- 100 %     | Eye Irrit. 2<br>H319<br>STOT SE 3<br>H335<br>Skin Irrit. 2<br>H315   |
| Hydroquinone<br>123-31-9           | 204-617-8<br>01-2119524016-51 | 0,01- < 0,1 % | Aquatic Acute 1<br>H400<br>Aquatic Chronic 1<br>H410<br>Carc. 2<br>H351<br>Muta. 2<br>H341<br>Acute Tox. 4; Oral<br>H302<br>Eye Dam. 1<br>H318<br>Skin Sens. 1<br>H317<br>M factor (Acute Aquat Tox): 10 |

**For full text of the H - statements and other abbreviations see section 16 "Other information".****Substances without classification may have community workplace exposure limits available.****SECTION 4: First aid measures****4.1. Description of first aid measures**

**Inhalation:**

Move to fresh air, consult doctor if complaint persists.

**Skin contact:**

If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth.

Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action.

Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn.

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.

Burns should be treated normally after the adhesive has been removed from the skin.

**Eye contact:**

If the eye is bonded closed, release eyelashes with warm water by covering with wet pad.

Keep eye covered until debonding is complete, usually within 1-3 days.

Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive.

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).

**4.2. Most important symptoms and effects, both acute and delayed**

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

**4.3. Indication of any immediate medical attention and special treatment needed**

See section: Description of first aid measures

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media:**

Foam, extinguishing powder, carbon dioxide.

Fine water spray

**Extinguishing media which must not be used for safety reasons:**

None known

**5.2. Special hazards arising from the substance or mixture**

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) can be released.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Additional information:**

In case of fire, keep containers cool with water spray.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Avoid contact with skin and eyes.

Wear protective equipment.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**

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.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Ventilation (low level) is recommended when using large volumes

Use of dispensing equipment is recommended to minimise the risk of skin or eye contact

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

**7.2. Conditions for safe storage, including any incompatibilities**

Refer to Technical Data Sheet

**7.3. Specific end use(s)**

Adhesive

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational Exposure Limits**

Valid for  
Germany

None

**Predicted No-Effect Concentration (PNEC):**

| Name on list             | Environmental<br>Compartment       | Exposure<br>period | Value            |     |                  |        | Remarks |
|--------------------------|------------------------------------|--------------------|------------------|-----|------------------|--------|---------|
|                          |                                    |                    | mg/l             | ppm | mg/kg            | others |         |
| Hydroquinone<br>123-31-9 | aqua<br>(freshwater)               |                    | 0,00057<br>mg/l  |     |                  |        |         |
| Hydroquinone<br>123-31-9 | aqua (marine<br>water)             |                    | 0,000057<br>mg/l |     |                  |        |         |
| Hydroquinone<br>123-31-9 | sediment<br>(freshwater)           |                    |                  |     | 0,0049<br>mg/kg  |        |         |
| Hydroquinone<br>123-31-9 | sediment<br>(marine water)         |                    |                  |     | 0,00049<br>mg/kg |        |         |
| Hydroquinone<br>123-31-9 | aqua<br>(intermittent<br>releases) |                    | 0,00134<br>mg/l  |     |                  |        |         |
| Hydroquinone<br>123-31-9 | Soil                               |                    |                  |     | 0,00064<br>mg/kg |        |         |
| Hydroquinone<br>123-31-9 | sewage<br>treatment plant<br>(STP) |                    | 0,71 mg/l        |     |                  |        |         |

**Derived No-Effect Level (DNEL):**

| Name on list                       | Application Area   | Route of Exposure | Health Effect                         | Exposure Time | Value                  | Remarks |
|------------------------------------|--------------------|-------------------|---------------------------------------|---------------|------------------------|---------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | Workers            | Inhalation        | Long term exposure - local effects    |               | 9,25 mg/m <sup>3</sup> |         |
| Ethyl 2-cyanoacrylate<br>7085-85-0 | Workers            | Inhalation        | Long term exposure - systemic effects |               | 9,25 mg/m <sup>3</sup> |         |
| Ethyl 2-cyanoacrylate<br>7085-85-0 | General population | Inhalation        | Long term exposure - local effects    |               | 9,25 mg/m <sup>3</sup> |         |
| Ethyl 2-cyanoacrylate<br>7085-85-0 | General population | Inhalation        | Long term exposure - systemic effects |               | 9,25 mg/m <sup>3</sup> |         |
| Hydroquinone<br>123-31-9           | Workers            | dermal            | Long term exposure - systemic effects |               | 3,33 mg/kg             |         |
| Hydroquinone<br>123-31-9           | Workers            | inhalation        | Long term exposure - systemic effects |               | 2,1 mg/m <sup>3</sup>  |         |
| Hydroquinone<br>123-31-9           | General population | dermal            | Long term exposure - systemic effects |               | 1,66 mg/kg             |         |
| Hydroquinone<br>123-31-9           | General population | inhalation        | Long term exposure - systemic effects |               | 1,05 mg/m <sup>3</sup> |         |
| Hydroquinone<br>123-31-9           | General population | oral              | Long term exposure - systemic effects |               | 0,6 mg/kg              |         |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:

Ensure good ventilation/extraction.

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 &gt; 30 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq$  0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to &gt; 480 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq$  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.

Do not use PVC, rubber or nylon gloves.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. 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.

**Skin protection:**

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

**Advices to personal protection equipment:**

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

|  |   |
|--|---|
| Appearance                                   | liquid  |
| Odour threshold                              | colourless to yellowish<br>No data available / Not applicable |
| pH   | No data available / Not applicable                            |
| Melting point                                | No data available / Not applicable                            |
| Solidification temperature                   | No data available / Not applicable                            |
| Initial boiling point                        | > 149 °C (> 300.2 °F)   |
| Flash point                                  | 80 - 93 °C (176 - 199.4 °F)                                   |
| Evaporation rate                             | No data available / Not applicable                            |
| Flammability                                 | No data available / Not applicable                            |
| Explosive limits                             | No data available / Not applicable                            |
| Vapour pressure<br>(50 °C (122 °F))          | < 700 mbar  |
| Relative vapour density:                     | No data available / Not applicable                            |
| Density                                      | No data available / Not applicable                            |
| Bulk density                                 | No data available / Not applicable                            |
| Solubility                                   | No data available / Not applicable                            |
| Solubility (qualitative)<br>(Solvent: Water) | Polymerises in presence of water.                             |
| Partition coefficient: n-octanol/water       | No data available / Not applicable                            |
| Auto-ignition temperature                    | No data available / Not applicable                            |
| Decomposition temperature                    | No data available / Not applicable                            |
| Viscosity                                    | No data available / Not applicable                            |
| Viscosity (kinematic)                        | No data available / Not applicable                            |
| Explosive properties                         | No data available / Not applicable                            |
| Oxidising properties                         | No data available / Not applicable                            |

**9.2. Other information**

No data available / Not applicable

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

See section reactivity

**10.4. Conditions to avoid**

Stable under normal conditions of storage and use.

**10.5. Incompatible materials**

See section reactivity.

**10.6. Hazardous decomposition products**

None if used for intended purpose.

**SECTION 11: Toxicological information****General toxicological information:**

Cyanoacrylates are considered to have relatively low toxicity. Acute oral LD50 is >5000mg/kg (rat). It is almost impossible to swallow as it rapidly polymerises in the mouth.

Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals

In dry atmosphere with < 50% humidity, vapours may irritate the eyes and respiratory system

**11.1. Information on toxicological effects****Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.       | Value type | Value         | Species | Method                                   |
|------------------------------------|------------|---------------|---------|--|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | LD50       | > 5.000 mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity) |
| Hydroquinone<br>123-31-9           | LD50       | 367 mg/kg     | rat     | OECD Guideline 401 (Acute Oral Toxicity) |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.       | Value type | Value         | Species | Method                                     |
|------------------------------------|------------|---------------|---------|--|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | LD50       | > 2.000 mg/kg | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity) |
| Hydroquinone<br>123-31-9           | LD50       | > 2.000 mg/kg | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

No data available.

**Skin corrosion/irritation:**

Bonds skin in seconds. Considered to be of low toxicity: acute dermal LD50 (rabbit)>2000mg/kg

Due to polymerisation at the skin surface allergic reaction is unlikely to occur

| Hazardous substances CAS-No.       | Result              | Exposure time | Species | Method   |
|------------------------------------|---------------------|---------------|---------|--|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | slightly irritating | 24 h          | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Hydroquinone<br>123-31-9           | not irritating      | 24 h          | rabbit  | Weight of evidence                                       |

**Serious eye damage/irritation:**

Liquid product will bond eyelids. In a dry atmosphere (RH<50%) vapours may cause irritation and lachrymatory effect

| Hazardous substances CAS-No.       | Result     | Exposure time | Species | Method  |
|------------------------------------|------------|---------------|---------|---|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | irritating | 72 h          | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.    | Result          | Test type                          | Species    | Method   |
|------------------------------------|-----------------|------------------------------------|------------|--|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | not sensitising |                                    | guinea pig | not specified  |
| Hydroquinone<br>123-31-9           | sensitising     | Guinea pig maximisation test       | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation)                         |
| Hydroquinone<br>123-31-9           | sensitising     | Mouse local lymphnode assay (LLNA) | mouse      | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.    | Result   | Type of study/<br>Route of<br>administration     | Metabolic<br>activation/<br>Exposure time | Species | Method  |
|------------------------------------|----------|--|---|---------|---|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | negative | bacterial reverse mutation assay (e.g Ames test) |   |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)   |
| Ethyl 2-cyanoacrylate<br>7085-85-0 | negative | mammalian cell gene mutation assay               | with and without                          |         | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)                                   |
| Ethyl 2-cyanoacrylate<br>7085-85-0 | negative | in vitro mammalian chromosome aberration test    | with and without                          |         | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)                                |
| Hydroquinone<br>123-31-9           | negative | bacterial reverse mutation assay (e.g Ames test) | with and without                          |         | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)                    |
| Hydroquinone<br>123-31-9           | negative | in vitro mammalian chromosome aberration test    | with and without                          |         | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)                                |
| Hydroquinone<br>123-31-9           | positive | mammalian cell gene mutation assay               | with and without                          |         | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)                                   |
| Hydroquinone<br>123-31-9           | positive | intraperitoneal                                  |   | mouse   | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)             |
| Hydroquinone<br>123-31-9           | negative | oral: gavage                                     |   | rat     | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)     |
| Hydroquinone<br>123-31-9           | positive | intraperitoneal                                  |   | mouse   | equivalent or similar to OECD Guideline 483 (Mammalian Spermatogonial Chromosome Aberration Test) |

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components<br>CAS-No. | Result       | Route of application | Exposure time /<br>Frequency of treatment | Species | Sex         | Method  |
|---------------------------------|--------------|----------------------|---|---------|-------------|---|
| Hydroquinone<br>123-31-9        | carcinogenic | oral: gavage         | 103 w<br>5 d/w                            | rat     | male/female | equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity/ Carcinogenicity Studies) |
| Hydroquinone<br>123-31-9        | carcinogenic | oral: gavage         | 103 w<br>5 d/w                            | mouse   | female      | equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity/ Carcinogenicity Studies) |

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result / Value   | Test type                  | Route of<br>application | Species | Method  |
|---------------------------------|--|----------------------------|-------------------------|---------|---|
| Hydroquinone<br>123-31-9        | NOAEL P 15 mg/kg<br>NOAEL F1 150 mg/kg<br>NOAEL F2 150 mg/kg | Two<br>generation<br>study | oral: gavage            | rat     | EPA OTS 798.4700<br>(Reproduction and Fertility<br>Effects) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result / Value   | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method  |
|---------------------------------|------------------|-------------------------|--|---------|---|
| Hydroquinone<br>123-31-9        | NOAEL 50 mg/kg   | oral: gavage            | 13 w<br>5 d/w                                | rat     | not specified   |
| Hydroquinone<br>123-31-9        | NOAEL 73,9 mg/kg | dermal                  | 13 w<br>6 h/d, 5 d/w                         | rat     | equivalent or similar to<br>OECD Guideline 411<br>(Subchronic Dermal<br>Toxicity: 90-Day Study) |

**Aspiration hazard:**

No data available.

## SECTION 12: Ecological information

### General ecological information:

Biological and Chemical Oxygen Demands (BOD and COD) are insignificant.  
Do not empty into drains / surface water / ground water.

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type | Value      | Exposure time | Species             | Method  |
|---------------------------------|---------------|------------|---------------|---------------------|---|
| Hydroquinone<br>123-31-9        | LC50          | 0,638 mg/l | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type | Value      | Exposure time | Species       | Method   |
|---------------------------------|---------------|------------|---------------|---------------|--|
| Hydroquinone<br>123-31-9        | EC50          | 0,134 mg/l | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type | Value       | Exposure time | Species       | Method   |
|---------------------------------|---------------|-------------|---------------|---------------|--|
| Hydroquinone<br>123-31-9        | NOEC          | 0,0057 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type | Value      | Exposure time | Species   | Method   |
|---------------------------------|---------------|------------|---------------|---|--|
| Hydroquinone<br>123-31-9        | EC50          | 0,335 mg/l | 72 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |

#### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type | Value      | Exposure time | Species | Method        |
|---------------------------------|---------------|------------|---------------|---------|---------------|
| Hydroquinone<br>123-31-9        | EC50          | 0,038 mg/l | 30 min        |         | not specified |

### 12.2. Persistence and degradability

No data available.

| Hazardous substances<br>CAS-No.    | Result                     | Test type | Degradability | Exposure<br>time | Method  |
|------------------------------------|----------------------------|-----------|---------------|------------------|---|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | not readily biodegradable. | aerobic   | 57 %          | 28 d             | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test)                     |
| Hydroquinone<br>123-31-9           | readily biodegradable      | aerobic   | 75 - 81 %     | 30 d             | EU Method C.4-E (Determination<br>of the "Ready"<br>Biodegradability Closed Bottle<br>Test) |

**12.3. Bioaccumulative potential**

No data available.

No substance data available.

**12.4. Mobility in soil**

Cured adhesives are immobile.

| Hazardous substances<br>CAS-No.    | LogPow | Temperature | Method                                |
|------------------------------------|--------|-------------|---------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | 0,776  | 22 °C       | EU Method A.8 (Partition Coefficient) |
| Hydroquinone<br>123-31-9           | 0,59   |             | EU Method A.8 (Partition Coefficient) |

**12.5. Results of PBT and vPvB assessment**

| Hazardous substances<br>CAS-No.    | PBT/ vPvB   |
|------------------------------------|---|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Hydroquinone<br>123-31-9           | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Product disposal:

Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions.

Dispose of in accordance with local and national regulations.

Contribution of this product to waste is very insignificant in comparison to article in which it is used

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Disposal must be made according to official regulations.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

## SECTION 14: Transport information

### 14.1. UN number

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | 3334                |

### 14.2. UN proper shipping name

|      |   |
|------|---|
| ADR  | Not dangerous goods                                     |
| RID  | Not dangerous goods                                     |
| ADN  | Not dangerous goods                                     |
| IMDG | Not dangerous goods                                     |
| IATA | Aviation regulated liquid, n.o.s. (Cyanoacrylate ester) |

### 14.3. Transport hazard class(es)

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | 9                   |

### 14.4. Packing group

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | III                 |

### 14.5. Environmental hazards

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

### 14.6. Special precautions for user

|      |   |
|------|---|
| ADR  | not applicable  |
| RID  | not applicable  |
| ADN  | not applicable  |
| IMDG | not applicable  |
| IATA | Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted. |

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## SECTION 15: Regulatory information

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

VOC content < 3 %  
(2010/75/EC)

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

**National regulations/information (Germany):**

WGK: WGK = 1, slightly water endangering mixture. Derivation of WGK from test results according to the rules in German AwSV regulation annex 1, number 5.3 from 18. April 2017.

Storage class according to TRGS 510: 10

**SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

**Further information:**

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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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**Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.**

**Annex - Exposure Scenarios:**

Exposure Scenarios for ethyl 2-cyanoacrylate can be downloaded under the following link:  
[http://mymsds.henkel.com/mymsds/.470833..en.ANNEX\\_DE.15743123.0.DE.pdf](http://mymsds.henkel.com/mymsds/.470833..en.ANNEX_DE.15743123.0.DE.pdf)  
Alternatively they can be accessed on the internet site [www.mymsds.henkel.com](http://www.mymsds.henkel.com) by entering number 470833.