



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

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Loctite SuperBond

SDS No. : 700360

V003.1

Revision: 01.02.2023

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Replaces version from: 26.10.2022

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

#### 1.1. Product identifier

Loctite SuperBond

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

Intended use:

Super glue

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

Henkel Ireland

Operations and Research Limited

Tallaght Business Park, Whitestown

24 Dublin

Ireland

Phone: +353 (0353) 1 404 6444

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

00353 14046280

National Poisons Information Centre: Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

### 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

**Signal word:**

Warning

**Hazard statement:**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**Supplemental information**

EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

**Precautionary statement:  
Prevention**

P261 Avoid breathing vapors.

**Precautionary statement:  
Response**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

**Precautionary statement:  
Disposal**

P501 Dispose of contents/container in accordance with national regulation.

**2.3. Other hazards**

None if used properly.

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

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

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

| <b>Hazardous components<br/>CAS-No.<br/>EC Number<br/>REACH-Reg No.</b>                        | <b>Concentration</b> | <b>Classification</b>                                                                                                                                    | <b>Specific Conc. Limits, M-factors and ATEs</b> | <b>Add. Information</b> |
|------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0<br>230-391-5<br>01-2119527766-29                            | 80- < 100 %          | Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Skin Irrit. 2, H315                                                                                             | STOT SE 3; H335; C >= 10 %                       |                         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1<br>204-327-1<br>01-2119496065-33 | 0,1- < 0,3 %         | Repr. 1B, H360F                                                                                                                                          |                                                  | SVHC                    |
| Hydroquinone<br>123-31-9<br>204-617-8<br>01-2119524016-51                                      | 0,01- < 0,1 %        | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Carc. 2, H351<br>Muta. 2, H341<br>Acute Tox. 4, Oral, H302<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317 | M acute = 10<br>M chronic = 1                    |                         |

**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**

General information:

In case of adverse health effects seek medical advice.

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.

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.

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**

SKIN: Redness, inflammation.

Causes serious eye irritation.

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:**

carbon dioxide, foam, powder, water spray jet, fine water spray

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

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) can be released.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus.

Wear protective equipment.

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

Wear protective equipment.

Danger of slipping on spilled product.

Ensure adequate ventilation.

Avoid contact with skin and eyes.

**6.2. Environmental precautions**

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

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

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

Open and handle container with care.

Ensure that workrooms are adequately ventilated.

Avoid skin and eye contact.

**Hygiene measures:**

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

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

Do not expose to direct sunlight.

Storage at 2 to 8°C is recommended.

Refer to Technical Data Sheet

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

Super glue

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Ireland

| Ingredient [Regulated substance]                                                   | ppm | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category / Remarks | Regulatory list |
|------------------------------------------------------------------------------------|-----|-------------------|-----------------------------------|----------------------------------------------|-----------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0<br>[ETHYL 2-CYANOACRYLATE; ETHYL CYANOACRYLATE] | 1   |                   | Short Term Exposure Limit (STEL): | 15 minutes                                   | IR_OEL          |
| Ethyl 2-cyanoacrylate<br>7085-85-0<br>[ETHYL 2-CYANOACRYLATE; ETHYL CYANOACRYLATE] | 0,2 |                   | Time Weighted Average (TWA):      |                                              | IR_OEL          |
| Hydroquinone<br>123-31-9<br>[HYDROQUINONE]                                         |     | 0,5               | Time Weighted Average (TWA):      |                                              | IR_OEL          |

#### Occupational Exposure Limits

Valid for  
Great Britain

| Ingredient [Regulated substance]                            | ppm | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category / Remarks | Regulatory list |
|-------------------------------------------------------------|-----|-------------------|-----------------------------------|----------------------------------------------|-----------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0<br>[ETHYL CYANOACRYLATE] | 0,3 | 1,5               | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Hydroquinone<br>123-31-9<br>[HYDROQUINONE]                  |     | 0,5               | Time Weighted Average (TWA):      |                                              | EH40 WEL        |

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

| Name on list                                                  | Environmental Compartment    | Exposure period | Value         |     |               |        | Remarks |
|---------------------------------------------------------------|------------------------------|-----------------|---------------|-----|---------------|--------|---------|
|                                                               |                              |                 | mg/l          | ppm | mg/kg         | others |         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | oral                         |                 |               |     | 10 mg/kg      |        |         |
| Hydroquinone<br>123-31-9                                      | aqua (freshwater)            |                 | 0,00057 mg/l  |     |               |        |         |
| Hydroquinone<br>123-31-9                                      | aqua (marine water)          |                 | 0,000057 mg/l |     |               |        |         |
| Hydroquinone<br>123-31-9                                      | sediment (freshwater)        |                 |               |     | 0,0049 mg/kg  |        |         |
| Hydroquinone<br>123-31-9                                      | sediment (marine water)      |                 |               |     | 0,00049 mg/kg |        |         |
| Hydroquinone<br>123-31-9                                      | aqua (intermittent releases) |                 | 0,00134 mg/l  |     |               |        |         |
| Hydroquinone<br>123-31-9                                      | Soil                         |                 |               |     | 0,00064 mg/kg |        |         |
| Hydroquinone<br>123-31-9                                      | sewage treatment plant (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> |         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | Workers            | inhalation        | Long term exposure - systemic effects        |               | 1,25 mg/m <sup>3</sup> |         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | Workers            | inhalation        | Acute/short term exposure - systemic effects |               | 6,25 mg/m <sup>3</sup> |         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | Workers            | dermal            | Long term exposure - systemic effects        |               | 0,36 mg/kg             |         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | Workers            | dermal            | Acute/short term exposure - systemic effects |               | 1,8 mg/kg              |         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | General population | inhalation        | Long term exposure - systemic effects        |               | 0,22 mg/m <sup>3</sup> |         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | General population | inhalation        | Acute/short term exposure - systemic effects |               | 1,1 mg/m <sup>3</sup>  |         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | General population | dermal            | Long term exposure - systemic effects        |               | 0,13 mg/kg             |         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | General population | dermal            | Acute/short term exposure - systemic effects |               | 0,65 mg/kg             |         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | General population | oral              | Long term exposure - systemic effects        |               | 0,13 mg/kg             |         |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | General population | oral              | Acute/short term exposure - systemic effects |               | 0,65 mg/kg             |         |
| 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:**

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Combination filter: ABEKP (EN 14387)

This recommendation should be matched to local conditions.

**Hand protection:**

Recommended are gloves made from Nitril rubber ( Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness > 0.4 mm

Perforation time > 30 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

**Eye protection:**

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

**Skin protection:**

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**

|                                                                                                   |                                                                                                                                     |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Physical state                                                                                    | liquid                                                                                                                              |
| Delivery form                                                                                     | liquid                                                                                                                              |
| Colour                                                                                            | colourless                                                                                                                          |
| Odor                                                                                              | characteristic                                                                                                                      |
| Melting point                                                                                     | Not applicable, Product is a liquid                                                                                                 |
| Solidification temperature                                                                        | -50 °C (-58 °F)                                                                                                                     |
| Initial boiling point                                                                             | > 100 °C (> 212 °F)                                                                                                                 |
| Flammability                                                                                      | The product is not flammable.                                                                                                       |
| Explosive limits                                                                                  | Not applicable, The product is not flammable.                                                                                       |
| Flash point                                                                                       | 80 - 93 °C (176 - 199.4 °F); no method                                                                                              |
| Auto-ignition temperature                                                                         | Currently under determination                                                                                                       |
| Decomposition temperature                                                                         | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH                                                                                                | Not applicable, Product reacts with water.                                                                                          |
| Viscosity (kinematic)<br>(25 °C (77 °F); )                                                        | 45 - 275 mm <sup>2</sup> /s                                                                                                         |
| Viscosity, dynamic<br>(Cone and plate; Instrument: Physica MC 100<br>(or equivalent), Cone MK 22) | 20 - 120 mPa.s LCT STM 740; cone & plate viscosity                                                                                  |
| Solubility (qualitative)<br>(22 °C (71.6 °F); Solvent: Water)                                     | Polymerises in presence of water.                                                                                                   |
| Partition coefficient: n-octanol/water                                                            | Currently under determination                                                                                                       |
| Vapour pressure<br>(50 °C (122 °F))                                                               | 2,5 hPa                                                                                                                             |
| Vapour pressure<br>(50 °C (122 °F))                                                               | < 0,2 mm hg                                                                                                                         |
| Density<br>(20 °C (68 °F))                                                                        | 1,1 g/cm <sup>3</sup> no method                                                                                                     |
| Relative vapour density:<br>(20 °C)                                                               | 3                                                                                                                                   |
| Relative vapour density:<br>(25 °C)                                                               |                                                                                                                                     |

Particle characteristics

Not applicable  
Product is a liquid**9.2. Other information**

Other information not applicable for this product

**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**

None if used for intended purpose.

**10.5. Incompatible materials**

See section reactivity.

**10.6. Hazardous decomposition products**

None known.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity:**

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          | Species | Method                                                            |
|---------------------------------------------------------------|---------------|----------------|---------|-------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0                            | LD50          | > 5.000 mg/kg  | rat     | equivalent or similar to OECD Guideline 423 (Acute Oral toxicity) |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | LD50          | > 10.000 mg/kg | rat     | not specified                                                     |
| 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<br>CAS-No.                               | Value<br>type | Value          | Species | Method                                                              |
|---------------------------------------------------------------|---------------|----------------|---------|---------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0                            | LD50          | > 2.000 mg/kg  | rabbit  | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | LD50          | > 10.000 mg/kg | rat     | not specified                                                       |
| 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<br>CAS-No.    | Result                 | Exposure<br>time | Species | Method                                                                            |
|------------------------------------|------------------------|------------------|---------|-----------------------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | slightly<br>irritating | 24 h             | rabbit  | equivalent or similar to 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<br>CAS-No.    | Result     | Exposure<br>time | Species | Method                                                                         |
|------------------------------------|------------|------------------|---------|--------------------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | irritating |                  | rabbit  | equivalent or similar to 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 | Skin sensitisation                    | guinea pig | not specified                                                                                  |
| Hydroquinone<br>123-31-9           | sensitising     | Guinea pig maximisation<br>test       | guinea pig | equivalent or similar to OECD Guideline<br>406 (Skin Sensitisation)                            |
| Hydroquinone<br>123-31-9           | sensitising     | Mouse local lymphnode<br>assay (LLNA) | mouse      | equivalent or similar to OECD Guideline<br>429 (Skin Sensitisation: Local Lymph<br>Node Assay) |

**Germ cell mutagenicity:**

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

| <b>Hazardous substances<br/>CAS-No.</b>                               | <b>Result</b> | <b>Type of study /<br/>Route of<br/>administration</b> | <b>Metabolic<br/>activation /<br/>Exposure time</b> | <b>Species</b> | <b>Method</b>                                                                                              |
|-----------------------------------------------------------------------|---------------|--------------------------------------------------------|-----------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0                                    | negative      | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                                    |                | equivalent or similar to OECD<br>Guideline 471 (Bacterial<br>Reverse Mutation Assay)                       |
| Ethyl 2-cyanoacrylate<br>7085-85-0                                    | negative      | in vitro mammalian<br>chromosome<br>aberration test    | with and without                                    |                | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                                   |
| Ethyl 2-cyanoacrylate<br>7085-85-0                                    | negative      | mammalian cell<br>gene mutation assay                  | with and without                                    |                | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                      |
| Bis(2-hydroxy-3-tert-<br>butyl-5-<br>methylphenyl)methane<br>119-47-1 | negative      | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                                    |                | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                                |
| Hydroquinone<br>123-31-9                                              | negative      | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                                    |                | equivalent or similar to OECD<br>Guideline 471 (Bacterial<br>Reverse Mutation Assay)                       |
| Hydroquinone<br>123-31-9                                              | negative      | in vitro mammalian<br>chromosome<br>aberration test    | with and without                                    |                | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                                   |
| Hydroquinone<br>123-31-9                                              | positive      | mammalian cell<br>gene mutation assay                  | with and without                                    |                | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                      |
| Hydroquinone<br>123-31-9                                              | positive      | intraperitoneal                                        |                                                     | mouse          | equivalent or similar to OECD<br>Guideline 474 (Mammalian<br>Erythrocyte Micronucleus<br>Test)             |
| Hydroquinone<br>123-31-9                                              | negative      | oral: gavage                                           |                                                     | rat            | equivalent or similar to OECD<br>Guideline 478 (Genetic<br>Toxicology: Rodent Dominant<br>Lethal Test)     |
| Hydroquinone<br>123-31-9                                              | positive      | intraperitoneal                                        |                                                     | mouse          | equivalent or similar to OECD<br>Guideline 483 (Mammalian<br>Spermatogonial Chromosome<br>Aberration Test) |

**Carcinogenicity**

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

| <b>Hazardous components<br/>CAS-No.</b> | <b>Result</b> | <b>Route of<br/>application</b> | <b>Exposure<br/>time /<br/>Frequency<br/>of treatment</b> | <b>Species</b> | <b>Sex</b>  | <b>Method</b>                                                                                                 |
|-----------------------------------------|---------------|---------------------------------|-----------------------------------------------------------|----------------|-------------|---------------------------------------------------------------------------------------------------------------|
| Hydroquinone<br>123-31-9                | carcinogenic  | oral: gavage                    | 103 w<br>5 d/w                                            | rat            | male/female | equivalent or similar<br>OECD Guideline 453<br>(Combined Chronic<br>Toxicity /<br>Carcinogenicity<br>Studies) |
| Hydroquinone<br>123-31-9                | carcinogenic  | oral: gavage                    | 103 w<br>5 d/w                                            | mouse          | female      | equivalent or similar<br>OECD Guideline 453<br>(Combined Chronic<br>Toxicity /<br>Carcinogenicity<br>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                                                                             |
|---------------------------------------------------------------|--------------------------------------------------------------|----------------------------|-------------------------|---------|------------------------------------------------------------------------------------|
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | NOAEL P 12,5 mg/kg                                           | screening                  | oral: gavage            | rat     | OECD Guideline 421<br>(Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| 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.

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

### General ecological information:

Do not empty into drains, soil or bodies of 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                                            |
|---------------------------------------------------------------|---------------|--------------------------------|---------------|---------------------|---------------------------------------------------|
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | LC50          | Toxicity > Water<br>solubility | 96 h          | Oryzias latipes     | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| 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                                                           |
|---------------------------------------------------------------|---------------|--------------------------------|---------------|---------------|------------------------------------------------------------------|
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | EC50          | Toxicity > Water<br>solubility | 48 h          | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| 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                                         |
|---------------------------------------------------------------|---------------|--------------------------------|---------------|---------------|------------------------------------------------|
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | NOEC          | Toxicity > Water<br>solubility | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |
| 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                                               |
|---------------------------------------------------------------|---------------|--------------------------------|---------------|-------------------------------------------------------------------------------|------------------------------------------------------|
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | EC50          | Toxicity > Water<br>solubility | 72 h          | Pseudokirchneriella subcapitata<br>(reported as Selenastrum<br>capricornutum) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | NOEC          | Toxicity > Water<br>solubility | 72 h          | Pseudokirchneriella subcapitata<br>(reported as Selenastrum<br>capricornutum) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 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                                                                   |
|---------------------------------------------------------------|---------------|--------------------------------|---------------|------------------|--------------------------------------------------------------------------|
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | EC50          | Toxicity > Water<br>solubility | 3 h           | activated sludge | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |
| Hydroquinone<br>123-31-9                                      | EC 50         | 0,038 mg/l                     | 30 min        |                  | not specified                                                            |

#### 12.2. Persistence and degradability

| 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)                     |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | under test conditions no<br>biodegradation observed | aerobic   | 0 %           | 28 d             | OECD Guideline 301 C (Ready<br>Biodegradability: Modified MITI<br>Test (I))                 |
| 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

| Hazardous substances<br>CAS-No.                               | Bioconcentration factor (BCF) | Exposure time | Temperature | Species         | Method                                                               |
|---------------------------------------------------------------|-------------------------------|---------------|-------------|-----------------|----------------------------------------------------------------------|
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | 320 - 780                     | 60 d          |             | Cyprinus carpio | OECD Guideline 305 E<br>(Bioaccumulation: Flow-through<br>Fish Test) |

#### 12.4. Mobility in soil

| 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)                                              |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | 6,25   | 20 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| 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. |
| Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane<br>119-47-1 | 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. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080409

## SECTION 14: Transport information

### 14.1. UN number or ID 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. Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted. |

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

No information available:

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

|                                                                 |                |
|-----------------------------------------------------------------|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):     | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):      | Not applicable |

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

## 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.  
H360F May damage fertility.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

|             |                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------|
| ED:         | Substance identified as having endocrine disrupting properties                                                    |
| EU OEL:     | Substance with a Union workplace exposure limit                                                                   |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148                                                               |
| EU EXPLD 2  | Substance listed in Annex II, Reg (EC) No. 2019/1148                                                              |
| SVHC:       | Substance of very high concern (REACH Candidate List)                                                             |
| PBT:        | Substance fulfilling persistent, bioaccumulative and toxic criteria                                               |
| PBT/vPvB:   | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB:       | Substance fulfilling very persistent and very bioaccumulative criteria                                            |

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