

**LOCTITE 480** 

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

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SDS No.: 153522

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

## 1.1. Product identifier

LOCTITE 480

## 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 Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

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.

### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

## **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

Chronic hazards to the aquatic environment Category 3

H412 Harmful to aquatic life with long lasting effects.

#### 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.

H412 Harmful to aquatic life with long lasting effects.

Supplemental information Contains: phthalic anhydride; Hydroquinone; maleic anhydride May produce an allergic

reaction.

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

children.

**Precautionary statement:** P261 Avoid breathing vapors.

Prevention P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection.

**Precautionary statement:** P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

**Precautionary statement:** 

Disposal

Response

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

## 2.3. Other hazards

None if used properly.

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

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 ≥ 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:

| Hazardous components CAS-No. EC Number REACH-Reg No.                | Concentration                             | Classification   | Specific Conc. Limits, M-<br>factors and ATEs | Add.<br>Information |
|---|---|--|---|---------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0<br>230-391-5<br>01-2119527766-29 | 50- 100 %                                 | Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Skin Irrit. 2, H315   | STOT SE 3; H335; C >= 10 %                    |                     |
| Hydroquinone<br>123-31-9<br>204-617-8<br>01-2119524016-51           | 0,1-< 1 %                                 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Carc. 2, H351 Muta. 2, H341 Acute Tox. 4, Oral, H302 Eye Dam. 1, H318 Skin Sens. 1, H317           | M acute = 10<br>M chronic = 1                 |                     |
| phthalic anhydride<br>85-44-9<br>201-607-5<br>01-2119457017-41      | 0,1-< 1 %                                 | Eye Dam. 1, H318<br>Skin Irrit. 2, H315<br>STOT SE 3, H335<br>Acute Tox. 4, Oral, H302<br>Skin Sens. 1, H317<br>Resp. Sens. 1, H334              |   |                     |
| maleic anhydride<br>108-31-6<br>203-571-6<br>01-2119472428-31       | 0,0001-< 0,001<br>%<br>( 1 ppm- < 10 ppm) | STOT RE 1, Inhalation, H372<br>Acute Tox. 4, Oral, H302<br>Skin Sens. 1A, H317<br>Resp. Sens. 1, H334<br>Eye Dam. 1, H318<br>Skin Corr. 1B, H314 | Skin Sens. 1A; H317; C >= 0,001 %             |                     |

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. If symptoms persist, seek medical advice.

#### 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.

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

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.

## 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 (CO2) and nitrogen oxides (NOx) 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.

Wear protective equipment.

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

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.

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

Ventilation (low level) is recommended when using large volumes

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

Avoid skin and eye contact.

See advice in section 8

# 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

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<br>Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Carbon black<br>1333-86-4<br>[CARBON BLACK]                 |     | 3,5               | Time Weighted Average (TWA):         |  | EH40 WEL        |
| Carbon black<br>1333-86-4<br>[CARBON BLACK]                 |     | 7                 | Short Term Exposure<br>Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Phthalic anhydride<br>85-44-9<br>[PHTHALIC ANHYDRIDE]       |     | 4                 | Time Weighted Average (TWA):         |  | EH40 WEL        |
| Phthalic anhydride<br>85-44-9<br>[PHTHALIC ANHYDRIDE]       |     | 12                | Short Term Exposure<br>Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Hydroquinone<br>123-31-9<br>[HYDROQUINONE]                  |     | 0,5               | Time Weighted Average (TWA):         |  | EH40 WEL        |
| Maleic anhydride<br>108-31-6<br>[MALEIC ANHYDRIDE]          |     | 1                 | Time Weighted Average (TWA):         |  | EH40 WEL        |
| Maleic anhydride<br>108-31-6<br>[MALEIC ANHYDRIDE]          |     | 3                 | Short Term Exposure<br>Limit (STEL): | 15 minutes                                   | EH40 WEL        |

# **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<br>CYANOACRYLATE] | 1    |                   | Short Term Exposure<br>Limit (STEL): | 15 minutes                                   | IR_OEL          |
| Ethyl 2-cyanoacrylate<br>7085-85-0<br>[ETHYL 2-CYANOACRYLATE; ETHYL<br>CYANOACRYLATE] | 0,2  |                   | Time Weighted Average (TWA):         |  | IR_OEL          |
| Carbon black<br>1333-86-4<br>[CARBON BLACK]   |      | 3                 | Time Weighted Average (TWA):         |  | IR_OEL          |
| Phthalic anhydride<br>85-44-9<br>[PHTHALIC ANHYDRIDE]                                 | 1    |                   | Time Weighted Average (TWA):         |  | IR_OEL          |
| Phthalic anhydride<br>85-44-9<br>[PHTHALIC ANHYDRIDE]                                 |      | 12                | Short Term Exposure<br>Limit (STEL): | 15 minutes                                   | IR_OEL          |
| Hydroquinone<br>123-31-9<br>[HYDROQUINONE]  |      | 0,5               | Time Weighted Average (TWA):         |  | IR_OEL          |
| Maleic anhydride<br>108-31-6<br>[MALEIC ANHYDRIDE]                                    | 0,01 |                   | Time Weighted Average (TWA):         |  | IR_OEL          |

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

|                    | Compartment     | Exposure period | Value           |     |            |        | Remarks |
|--------------------|-----------------|-----------------|-----------------|-----|------------|--------|---------|
|                    |                 | F               | mg/l            | ppm | mg/kg      | others |         |
| Hydroquinone       | aqua            |                 | 0.00057         |     | 3 3        |        |         |
| 123-31-9           | (freshwater)    |                 | mg/l            |     |            |        |         |
| Hydroquinone       | aqua (marine    |                 | 0,000057        |     |            |        |         |
| 123-31-9           | water)          |                 | mg/l            |     |            |        |         |
| Hydroquinone       | sediment        |                 | 8               |     | 0,0049     |        |         |
| 123-31-9           | (freshwater)    |                 |                 |     | mg/kg      |        |         |
| Hydroquinone       | sediment        |                 |                 |     | 0,00049    |        |         |
| 123-31-9           | (marine water)  |                 |                 |     | mg/kg      |        |         |
| Hydroquinone       | aqua            |                 | 0,00134         |     | mg/kg      |        |         |
| 123-31-9           | (intermittent   |                 | mg/l            |     |            |        |         |
| 123-31-9           | releases)       |                 | IIIg/I          |     |            |        |         |
| TT 1 '             | Soil            |                 |                 |     | 0.00064    | -      |         |
| Hydroquinone       | Soil            |                 |                 |     | 0,00064    |        |         |
| 123-31-9           |                 |                 |                 |     | mg/kg      |        |         |
| Hydroquinone       | sewage          |                 | 0,71 mg/l       |     |            |        |         |
| 123-31-9           | treatment plant |                 |                 |     |            |        |         |
|                    | (STP)           |                 |                 |     |            |        |         |
| phthalic anhydride | Soil            |                 |                 |     | 0,173      |        |         |
| 85-44-9            |                 |                 |                 |     | mg/kg      |        |         |
| phthalic anhydride | sewage          |                 | 10 mg/l         |     |            |        |         |
| 85-44-9            | treatment plant |                 |                 |     |            |        |         |
|                    | (STP)           |                 |                 |     |            |        |         |
| phthalic anhydride | sediment        |                 |                 |     | 3,8 mg/kg  |        |         |
| 85-44-9            | (freshwater)    |                 |                 |     | - 7- 8-8   |        |         |
| phthalic anhydride | sediment        |                 |                 |     | 0,38 mg/kg |        |         |
| 85-44-9            | (marine water)  |                 |                 |     | 0,50 mg/kg |        |         |
| phthalic anhydride | aqua (marine    |                 | 0,1 mg/l        |     |            |        |         |
| 85-44-9            | water)          |                 | 0,1 mg/1        |     |            |        |         |
| phthalic anhydride | aqua            |                 | 5,6 mg/l        |     |            |        |         |
| 85-44-9            | (intermittent   |                 | 3,0 mg/1        |     |            |        |         |
| 63-44-9            | releases)       |                 |                 |     |            |        |         |
| phthalic anhydride | ,               |                 | 1 /1            |     |            |        | +       |
| 85-44-9            | aqua            |                 | 1 mg/l          |     |            |        |         |
|                    | (freshwater)    |                 | 0.020 #         |     |            |        |         |
| maleic anhydride   | aqua            |                 | 0,038 mg/l      |     |            |        |         |
| 108-31-6           | (freshwater)    |                 |                 |     |            |        |         |
| maleic anhydride   | aqua (marine    |                 | 0,004 mg/l      |     |            |        |         |
| 108-31-6           | water)          |                 |                 |     |            |        |         |
| maleic anhydride   | Soil            |                 |                 |     | 0,037      |        |         |
| 108-31-6           |                 |                 |                 |     | mg/kg      |        |         |
| maleic anhydride   | sediment        |                 |                 |     | 0,296      |        |         |
| 108-31-6           | (freshwater)    |                 |                 |     | mg/kg      |        |         |
| maleic anhydride   | sediment        |                 |                 |     | 0,03 mg/kg |        |         |
| 108-31-6           | (marine water)  |                 |                 |     |            |        |         |
| maleic anhydride   | sewage          |                 | 44,6 mg/l       |     |            |        |         |
| 108-31-6           | treatment plant |                 |                 |     |            |        |         |
| -                  | (STP)           |                 |                 |     |            |        |         |
| maleic anhydride   | Freshwater -    |                 | 0,379 mg/l      | 1   |            |        |         |
| 108-31-6           | intermittent    |                 | [ ,5,5,7 1118/1 |     |            |        |         |
| maleic anhydride   | Marine water -  |                 | 0,038 mg/l      | +   |            | -      |         |
| 108-31-6           | intermittent    |                 | 0,036 IIIg/I    |     |            |        |         |

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

| Name on list                       | Application<br>Area   | Route of<br>Exposure | Health Effect                                      | Exposure<br>Time | Value       | Remarks |
|------------------------------------|-----------------------|----------------------|--|------------------|-------------|---------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | Workers               | Inhalation           | Long term<br>exposure - local<br>effects           |                  | 9,25 mg/m3  |         |
| Ethyl 2-cyanoacrylate 7085-85-0    | Workers               | Inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 9,25 mg/m3  |         |
| Ethyl 2-cyanoacrylate<br>7085-85-0 | General population    | Inhalation           | Long term<br>exposure - local<br>effects           |                  | 9,25 mg/m3  |         |
| Ethyl 2-cyanoacrylate<br>7085-85-0 | General population    | Inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 9,25 mg/m3  |         |
| Hydroquinone<br>123-31-9           | Workers               | dermal               | Long term<br>exposure -<br>systemic effects        |                  | 3,33 mg/kg  |         |
| Hydroquinone<br>123-31-9           | Workers               | inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 2,1 mg/m3   |         |
| Hydroquinone<br>123-31-9           | General population    | dermal               | Long term<br>exposure -<br>systemic effects        |                  | 1,66 mg/kg  |         |
| Hydroquinone<br>123-31-9           | General<br>population | inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 1,05 mg/m3  |         |
| Hydroquinone<br>123-31-9           | General population    | oral                 | Long term<br>exposure -<br>systemic effects        |                  | 0,6 mg/kg   |         |
| phthalic anhydride<br>85-44-9      | Workers               | inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 32,2 mg/m3  |         |
| phthalic anhydride<br>85-44-9      | Workers               | dermal               | Long term<br>exposure -<br>systemic effects        |                  | 10 mg/kg    |         |
| phthalic anhydride<br>85-44-9      | General population    | inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 8,6 mg/m3   |         |
| phthalic anhydride<br>85-44-9      | General<br>population | dermal               | Long term<br>exposure -<br>systemic effects        |                  | 5 mg/kg     |         |
| phthalic anhydride<br>85-44-9      | General population    | oral                 | Long term<br>exposure -<br>systemic effects        |                  | 5 mg/kg     |         |
| maleic anhydride<br>108-31-6       | Workers               | inhalation           | Acute/short term<br>exposure -<br>systemic effects |                  | 0,2 mg/m3   |         |
| maleic anhydride<br>108-31-6       | Workers               | inhalation           | Acute/short term<br>exposure - local<br>effects    |                  | 0,2 mg/m3   |         |
| maleic anhydride<br>108-31-6       | Workers               | inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 0,081 mg/m3 |         |
| maleic anhydride<br>108-31-6       | Workers               | inhalation           | Long term<br>exposure - local<br>effects           |                  | 0,081 mg/m3 |         |

# **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 > 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.

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

Physical state liquid
Delivery form liquid
Colour black
Odor irritating

Melting point Not applicable, Product is a liquid

Solidification temperature < -25 °C (< -13 °F)

Initial boiling point > 149 °C (> 300.2 °F)no method Flammability The product is not flammable.

Explosive limits Not applicable, The product is not flammable. Flash point 80 - 93 °C (176 - 199.4 °F); Tagliabue closed cup

Auto-ignition temperature 485 °C (905 °F)

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) > 20,5 mm2/s

(40 °C (104 °F); )

Solubility (qualitative) Polymerises in presence of water.

(20 °C (68 °F); Solvent: Water)

Solubility (qualitative) Miscible

(20 °C (68 °F); Solvent: Acetone)

Partition coefficient: n-octanol/water Not applicable

Mixture

Vapour pressure < 0,5 mm hg

(25 °C (77 °F))

Vapour pressure < 700 hPa;no method

(50 °C (122 °F))

Density 1,05 g/cm3 None

(20 °C (68 °F))

Relative vapour density: 3

(20 °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

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

#### 1.1 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  | Value | Value         | Species | Method  |
|-----------------------|-------|---------------|---------|---|
| CAS-No.               | type  |               |         |   |
| Ethyl 2-cyanoacrylate | LD50  | > 5.000 mg/kg | rat     | equivalent or similar to OECD Guideline 423 (Acute Oral |
| 7085-85-0             |       |               |         | toxicity)   |
| Hydroquinone          | LD50  | 367 mg/kg     | rat     | OECD Guideline 401 (Acute Oral Toxicity)                |
| 123-31-9              |       |               |         |   |
| phthalic anhydride    | LD50  | 1.530 mg/kg   | rat     | not specified   |
| 85-44-9               |       |               |         | _   |
| maleic anhydride      | LD50  | 1.090 mg/kg   | rat     | OECD Guideline 401 (Acute Oral Toxicity)                |
| 108-31-6              |       |               |         |   |

## Acute dermal toxicity:

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

| Hazardous substances          | Value | Value         | Species | Method   |
|-------------------------------|-------|---------------|---------|--|
| CAS-No.                       | type  |               |         |  |
| Ethyl 2-cyanoacrylate         | LD50  | > 2.000 mg/kg | rabbit  | equivalent or similar to OECD Guideline 402 (Acute |
| 7085-85-0                     |       |               |         | Dermal Toxicity)                                   |
| Hydroquinone<br>123-31-9      | LD50  | > 2.000 mg/kg | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity)         |
| phthalic anhydride<br>85-44-9 | LD50  | > 3.160 mg/kg | rabbit  | not specified                                      |
| maleic anhydride<br>108-31-6  | LD50  | 2.620 mg/kg   | rabbit  | not specified                                      |

## Acute inhalative toxicity:

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

| Hazardous substances CAS-No.  | Value<br>type | Value       | Test atmosphere | Exposure<br>time | Species | Method  |
|-------------------------------|---------------|-------------|-----------------|------------------|---------|---|
| phthalic anhydride<br>85-44-9 | LC50          | > 2,14 mg/l | dust/mist       | 4 h              | rat     | OECD Guideline 403 (Acute<br>Inhalation Toxicity) |

#### 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 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  |
| phthalic anhydride<br>85-44-9   | moderately irritating  | 24 h          | rabbit  | not specified   |
| maleic anhydride<br>108-31-6    | highly<br>irritating   |               | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                          |

## 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 7085-85-0 | irritating  |               | rabbit  | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| phthalic anhydride<br>85-44-9   | Category 1<br>(irreversible<br>effects on the<br>eye) |               | rabbit  | not specified  |
| maleic anhydride<br>108-31-6    | corrosive   |               | 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 7085-85-0 | not sensitising | Skin sensitisation                    | 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<br>429 (Skin Sensitisation: Local Lymph<br>Node Assay) |
| phthalic anhydride<br>85-44-9   | sensitising     | Guinea pig maximisation test          | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation)                               |
| phthalic anhydride<br>85-44-9   | sensitising     | Mouse local lymphnode<br>assay (LLNA) | mouse      | equivalent or similar to OECD Guideline<br>429 (Skin Sensitisation: Local Lymph<br>Node Assay) |
| maleic anhydride<br>108-31-6    | sensitising     | Guinea pig maximisation test          | guinea pig | OECD Guideline 406 (Skin Sensitisation)  |

# Germ cell mutagenicity:

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

| Hazardous substances CAS-No.    | Result   | Type of study /<br>Route of       | Metabolic activation / | Species | Method  |
|---------------------------------|----------|-----------------------------------|------------------------|---------|---|
| T1 12                           |          | administration                    | Exposure time          | -       |   |
| Ethyl 2-cyanoacrylate 7085-85-0 | negative | bacterial reverse                 | with and without       |         | equivalent or similar to OECD<br>Guideline 471 (Bacterial |
| 7083-83-0                       |          | mutation assay (e.g<br>Ames test) |                        |         | Reverse Mutation Assay)                                   |
| Ethyl 2-cyanoacrylate           | nogotivo | in vitro mammalian                | with and without       | +       | OECD Guideline 473 (In vitro                              |
| 7085-85-0                       | negative | chromosome                        | with and without       |         | Mammalian Chromosome                                      |
| 7005-05-0                       |          | aberration test                   |                        |         | Aberration Test)  |
| Ethyl 2-cyanoacrylate           | negative | mammalian cell                    | with and without       |         | OECD Guideline 476 (In vitro                              |
| 7085-85-0                       | negative | gene mutation assay               | with and without       |         | Mammalian Cell Gene                                       |
| 7003 03 0                       |          | gene mutation assay               |                        |         | Mutation Test)  |
| Hydroquinone                    | negative | bacterial reverse                 | with and without       |         | equivalent or similar to OECD                             |
| 123-31-9                        |          | mutation assay (e.g               |                        |         | Guideline 471 (Bacterial                                  |
|                                 |          | Ames test)                        |                        |         | Reverse Mutation Assay)                                   |
| Hydroquinone                    | negative | in vitro mammalian                | with and without       |         | OECD Guideline 473 (In vitro                              |
| 123-31-9                        | 3        | chromosome                        |                        |         | Mammalian Chromosome                                      |
|                                 |          | aberration test                   |                        |         | Aberration Test)  |
| Hydroquinone                    | positive | mammalian cell                    | with and without       |         | OECD Guideline 476 (In vitro                              |
| 123-31-9                        | -        | gene mutation assay               |                        |         | Mammalian Cell Gene                                       |
|                                 |          |                                   |                        |         | Mutation Test)  |
| phthalic anhydride              | negative | bacterial reverse                 | with and without       |         | OECD Guideline 471  |
| 85-44-9                         |          | mutation assay (e.g               |                        |         | (Bacterial Reverse Mutation                               |
|                                 |          | Ames test)                        |                        |         | Assay)  |
| phthalic anhydride              | negative | in vitro mammalian                | with and without       |         | Chromosome Aberration Test                                |
| 85-44-9                         |          | chromosome                        |                        |         |   |
|                                 |          | aberration test                   |                        |         | 0707 0 11 11 45 0   |
| phthalic anhydride              | negative | mammalian cell                    | with and without       |         | OECD Guideline 476 (In vitro                              |
| 85-44-9                         |          | gene mutation assay               |                        |         | Mammalian Cell Gene                                       |
| mbtholio ombrodnido             | magativa | sister chromatid                  | with and without       | +       | Mutation Test)  DNA damage and repair                     |
| phthalic anhydride<br>85-44-9   | negative | exchange assay in                 | with and without       |         | assay, UDS in mammalian                                   |
| 03-44-9                         |          | mammalian cells                   |                        |         | cells   |
| maleic anhydride                | negative | bacterial reverse                 | with and without       |         | OECD Guideline 471  |
| 108-31-6                        | neganve  | mutation assay (e.g               | with the without       |         | (Bacterial Reverse Mutation                               |
| 100 01 0                        |          | Ames test)                        |                        |         | Assay)  |
| Hydroquinone                    | positive | intraperitoneal                   |                        | mouse   | equivalent or similar to OECD                             |
| 123-31-9                        | 1        | <b>.</b>                          |                        |         | Guideline 474 (Mammalian                                  |
|                                 |          |                                   |                        |         | Erythrocyte Micronucleus                                  |
|                                 |          |                                   |                        |         | Test)   |
| Hydroquinone                    | negative | oral: gavage                      |                        | rat     | equivalent or similar to OECD                             |
| 123-31-9                        |          |                                   |                        |         | Guideline 478 (Genetic                                    |
|                                 |          |                                   |                        |         | Toxicology: Rodent Dominant                               |
|                                 | 1        |                                   |                        |         | Lethal Test)  |
| Hydroquinone                    | positive | intraperitoneal                   |                        | mouse   | equivalent or similar to OECD                             |
| 123-31-9                        |          |                                   |                        |         | Guideline 483 (Mammalian                                  |
|                                 |          |                                   |                        |         | Spermatogonial Chromosome                                 |
| 1.1.11 1.11                     | 1        |                                   |                        | 1       | Aberration Test)  |
| phthalic anhydride              | negative | intraperitoneal                   |                        | mouse   | equivalent or similar to OECD                             |
| 85-44-9                         | 1        |                                   |                        |         | Guideline 474 (Mammalian Erythrocyte Micronucleus         |
|                                 | 1        |                                   |                        |         | Test)   |
| maleic anhydride                | negative | inhalation                        |                        | rat     | OECD Guideline 475  |
| 108-31-6                        | negative | illiaiatiOli                      |                        | rat     | (Mammalian Bone Marrow                                    |
| 100 01 0                        | 1        |                                   |                        |         | Chromosome Aberration Test)                               |
|                                 | 1        | L                                 | 1                      | l .     | omomosome riberration 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<br>time /<br>Frequency<br>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) |
| phthalic anhydride<br>85-44-9   | not carcinogenic | oral: feed           | 105 w<br>daily                                  | rat     | male/female | not specified  |

# 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 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)            |
| maleic anhydride<br>108-31-6    | NOAEL P 55 mg/kg<br>NOAEL F1 55 mg/kg                        | Two<br>generation<br>study | oral: gavage         | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study) |

# 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          | Result / Value   | Route of     | Exposure time /      | Species | Method  |
|-------------------------------|------------------|--------------|----------------------|---------|---|
| CAS-No.                       |                  | application  | Frequency of         |         |   |
|                               |                  |              | treatment            |         |   |
| Hydroquinone                  | NOAEL 50 mg/kg   | oral: gavage | 13 w                 | rat     | not specified   |
| 123-31-9                      |                  |              | 5 d/w                |         |   |
| 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) |
| phthalic anhydride<br>85-44-9 | NOAEL 500 mg/kg  | oral: feed   | 105 w<br>daily       | rat     | not specified   |
| maleic anhydride<br>108-31-6  | NOAEL 40 mg/kg   | oral: feed   | 90 d<br>daily        | rat     | not specified   |

## **Aspiration hazard:**

No data available.

## 11.2 Information on other hazards

not applicable

# **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          | Value | Value      | Exposure time | Species             | Method   |
|-------------------------------|-------|------------|---------------|---------------------|--|
| CAS-No.                       | type  |            |               |                     |  |
| Hydroquinone 123-31-9         | LC50  | 0,638 mg/l | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| phthalic anhydride<br>85-44-9 | LC50  | 313 mg/l   | 48 h          | Leuciscus idus      | DIN 38412-15   |
| phthalic anhydride<br>85-44-9 | NOEC  | 10 mg/l    | 60 d          | no data             | OECD Guideline 210 (fish early lite stage toxicity test) |
| maleic anhydride<br>108-31-6  | LC50  | 115 mg/l   |               |                     | 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 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) |
| phthalic anhydride<br>85-44-9 | EC50          | > 640 mg/l | 48 h          | Daphnia magna | other guideline:   |
| maleic anhydride<br>108-31-6  | EC50          | 42,81 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                    | NOEC          | 0,0057 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia         |
| 123-31-9                        |               |             |               |               | magna, Reproduction Test) |
| phthalic anhydride              | NOEC          | 16 mg/l     | 21 d          | Daphnia magna | OECD 211 (Daphnia         |
| 85-44-9                         |               |             |               |               | magna, Reproduction Test) |

## Toxicity (Algae):

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

| Hazardous substances | Value | Value      | Exposure time | Species                        | Method                    |
|----------------------|-------|------------|---------------|--------------------------------|---------------------------|
| CAS-No.              | type  |            |               |                                |                           |
| Hydroquinone         | EC50  | 0,335 mg/l | 72 h          | Selenastrum capricornutum      | OECD Guideline 201 (Alga, |
| 123-31-9             |       |            |               | (new name: Pseudokirchneriella | Growth Inhibition Test)   |
|                      |       |            |               | subcapitata)                   |                           |
| phthalic anhydride   | EC50  | > 100 mg/l | 72 h          | not specified                  | OECD Guideline 201 (Alga, |
| 85-44-9              |       |            |               |                                | Growth Inhibition Test)   |
| phthalic anhydride   | NOEC  | 100 mg/l   | 72 h          | not specified                  | OECD Guideline 201 (Alga, |
| 85-44-9              |       |            |               |                                | Growth Inhibition Test)   |
| maleic anhydride     | EC50  | 29 mg/l    | 72 h          | Scenedesmus subspicatus (new   | OECD Guideline 201 (Alga, |
| 108-31-6             |       |            |               | name: Desmodesmus              | Growth Inhibition Test)   |
|                      |       |            |               | subspicatus)                   |                           |
| maleic anhydride     | EC10  | 23 mg/l    | 72 h          | Scenedesmus subspicatus (new   | OECD Guideline 201 (Alga, |
| 108-31-6             |       |            |               | name: Desmodesmus              | Growth Inhibition Test)   |
|                      |       |            |               | subspicatus)                   |                           |

# Toxicity to microorganisms

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

| Hazardous substances          | Value | Value         | Exposure time | Species | Method  |
|-------------------------------|-------|---------------|---------------|---------|---|
| CAS-No.                       | type  |               |               |         |   |
| Hydroquinone 123-31-9         | EC 50 | 0,038 mg/l    | 30 min        |         | not specified   |
| phthalic anhydride<br>85-44-9 | EC50  | > 1.000 mg/l  | 3 h           |         | ISO 8192 (Test for<br>Inhibition of Oxygen<br>Consumption by Activated<br>Sludge) |
| maleic anhydride<br>108-31-6  | EC0   | > 10.000 mg/l | 30 min        |         | not specified   |

# 12.2. Persistence and degradability

| Hazardous substances CAS-No.    | Result                     | Test type | Degradability | Exposure time | Method   |
|---------------------------------|----------------------------|-----------|---------------|---------------|--|
| Ethyl 2-cyanoacrylate 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>BiodegradabilityClosed Bottle<br>Test) |
| phthalic anhydride<br>85-44-9   | readily biodegradable      | aerobic   | 85,2 %        | 14 d          | OECD Guideline 301 C (Ready<br>Biodegradability: Modified MITI<br>Test (I))                |
| maleic anhydride<br>108-31-6    | readily biodegradable      | aerobic   | 98 %          | 7 d           | OECD Guideline 301 E (Ready<br>biodegradability: Modified OECD<br>Screening Test)          |

# 12.3. Bioaccumulative potential

No data available.

# 12.4. Mobility in soil

| Hazardous substances<br>CAS-No. | LogPow | Temperature | Method                                |
|---------------------------------|--------|-------------|---------------------------------------|
| Ethyl 2-cyanoacrylate 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) |
| phthalic anhydride<br>85-44-9   | 1,6    |             | EU Method A.8 (Partition Coefficient) |
| maleic anhydride<br>108-31-6    | 1,62   |             | not specified                         |

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

| Hazardous substances  | PBT / vPvB   |
|-----------------------|--|
| CAS-No.               |  |
| Ethyl 2-cyanoacrylate | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 7085-85-0             | Bioaccumulative (vPvB) criteria.   |
| Hydroquinone          | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 123-31-9              | Bioaccumulative (vPvB) criteria.   |
| phthalic anhydride    | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 85-44-9               | Bioaccumulative (vPvB) criteria.   |
| maleic anhydride      | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 108-31-6              | 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:

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

Dispose of in accordance with local and national regulations.

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

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.

#### 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 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 Not dangerous goods **IMDG** 

IATA

#### 14.4. Packing group

ADR Not dangerous goods RID Not dangerous goods **ADN** Not dangerous goods **IMDG** Not dangerous goods

**IATA** 

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

not applicable

# **SECTION 15: Regulatory information**

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):

Not applicable Not applicable

Persistent organic pollutants (Regulation (EU) 2019/1021):

Not applicable

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

#### 15.2. Chemical safety assessment

A chemical safety assessment has 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.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eve damage.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

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

## **Further information:**

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## **Annex - Exposure Scenarios:**

Exposure Scenarios for ethyl 2-cyanoacrylate can be downloaded under the following link: https://mysds.henkel.com/index.html#/appSelection