

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

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SDS No.: 153627

V002.9 Revision: 31.05.2015

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Replaces version from: 08.05.2015

LOCTITE AA 4304 LC known as 4304 Instant Adhesive Light Cu

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

#### 1.1. Product identifier

LOCTITE AA 4304 LC known as 4304 Instant Adhesive Light Cu

#### **Contains:**

Ethyl 2-cyanoacrylate

#### 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

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000 Fax-no.: +44 1442 278071

ua-productsafety.uk@uk.henkel.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

#### 2.2. Label elements

## Label elements (CLP):

## Hazard pictogram:



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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.

Contains Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide. May produce an allergic

reaction.

**Precautionary statement:** 

Prevention

P261 Avoid breathing mist/vapours.

**Precautionary statement:** P302+P352 IF ON SKIN: Wash with plenty of water.

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

**Precautionary statement:** 

**Disposal** 

P501 Dispose of waste and residues in accordance with local authority requirements.

## 2.3. Other hazards

None if used properly.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

## General chemical description:

Cyanoacrylate Adhesive

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

| Hazardous components                | EC Number        | content        | Classification     |
|-------------------------------------|------------------|----------------|--------------------|
| CAS-No.                             | REACH-Reg No.    |                |                    |
| Ethyl 2-cyanoacrylate               | 230-391-5        | > 80-<100 %    | Eye Irrit. 2       |
| 7085-85-0                           | 01-2119527766-29 |                | H319               |
|                                     |                  |                | STOT SE 3          |
|                                     |                  |                | H335               |
|                                     |                  |                | Skin Irrit. 2      |
|                                     |                  |                | H315               |
| Phenyl bis(2,4,6-trimethylbenzoyl)- | 423-340-5        | > 0,1-< 0,9 %  | Skin Sens. 1       |
| phosphine oxide                     | 01-2119489401-38 | y 0,1 \ 0,y /0 | H317               |
| 162881-26-7                         |                  |                | Aquatic Chronic 4  |
|                                     |                  |                | H413               |
|                                     |                  |                |                    |
| Hydroquinone                        | 204-617-8        | 0,01-< 0,1 %   | Aquatic Acute 1    |
| 123-31-9                            | 01-2119524016-51 |                | H400               |
|                                     |                  |                | Aquatic Chronic 1  |
|                                     |                  |                | H410               |
|                                     |                  |                | Carc. 2            |
|                                     |                  |                | H351               |
|                                     |                  |                | Muta. 2            |
|                                     |                  |                | H341               |
|                                     |                  |                | Acute Tox. 4; Oral |
|                                     |                  |                | H302               |
|                                     |                  |                | Eye Dam. 1         |
|                                     |                  |                | H318               |
|                                     |                  |                | Skin Sens. 1       |
|                                     |                  |                | H317               |
| <u>i</u>                            |                  |                | M factor: 10       |

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

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## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

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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.

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.

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.

#### Eye contact:

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

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

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

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

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

#### 5.3. Advice for firefighters

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

#### 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.

#### 6.2. Environmental precautions

Do not let product enter drains.

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

Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

#### 6.4. Reference to other sections

See advice in section 8

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Ventilation (low level) is recommended when using large volumes

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

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

For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C (35.6 - 46.4 °F)

#### 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): |  | EH40 WEL        |
| Hydroquinone<br>123-31-9<br>[HYDROQUINONE]                  |     | 0,5               | Time Weighted Average (TWA):         |  | EH40 WEL        |

## $\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

| Name on list             | Environmental<br>Compartment       | Exposure period | Value |     | Remarks |              |  |
|--------------------------|------------------------------------|-----------------|-------|-----|---------|--------------|--|
|                          |                                    |                 | mg/l  | ppm | mg/kg   | others       |  |
| Hydroquinone             | aqua                               |                 |       |     |         | 0,114 μg/L   |  |
| 123-31-9                 | (freshwater)                       |                 |       |     |         |              |  |
| Hydroquinone<br>123-31-9 | aqua (marine water)                |                 |       |     |         | 0,0114 μg/L  |  |
| Hydroquinone<br>123-31-9 | sediment<br>(freshwater)           |                 |       |     |         | 0,98 μg/kg   |  |
| Hydroquinone<br>123-31-9 | sediment<br>(marine water)         |                 |       |     |         | 0,097 μg/kg  |  |
| Hydroquinone<br>123-31-9 | aqua<br>(intermittent<br>releases) |                 |       |     |         | 0,00134 mg/L |  |
| Hydroquinone<br>123-31-9 | soil                               |                 |       |     |         | 0,129 μg/kg  |  |
| Hydroquinone<br>123-31-9 | STP                                |                 |       |     |         | 0,71 mg/L    |  |

## **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<br>7085-85-0                                    | Workers               | Inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 9,25 mg/m3       |         |
| Ethyl 2-cyanoacrylate<br>7085-85-0                                    | general<br>population | Inhalation           | Long term<br>exposure - local<br>effects           |                  | 9,25 mg/m3       |         |
| Ethyl 2-cyanoacrylate<br>7085-85-0                                    | general<br>population | Inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 9,25 mg/m3       |         |
| Phenyl bis(2,4,6-trimethylbenzoyl)-<br>phosphine oxide<br>162881-26-7 | Workers               | Inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 21 mg/m3         |         |
| Phenyl bis(2,4,6-trimethylbenzoyl)-<br>phosphine oxide<br>162881-26-7 | Workers               | Inhalation           | Acute/short term<br>exposure -<br>systemic effects |                  | 21 mg/m3         |         |
| Phenyl bis(2,4,6-trimethylbenzoyl)-<br>phosphine oxide<br>162881-26-7 | Workers               | Dermal               | Long term<br>exposure -<br>systemic effects        |                  | 3,3 mg/kg        |         |
| Phenyl bis(2,4,6-trimethylbenzoyl)-<br>phosphine oxide<br>162881-26-7 | Workers               | Dermal               | Acute/short term exposure - systemic effects       |                  | 3,3 mg/kg        |         |
| Phenyl bis(2,4,6-trimethylbenzoyl)-<br>phosphine oxide<br>162881-26-7 | general<br>population | inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 5,2 mg/m3        |         |
| Phenyl bis(2,4,6-trimethylbenzoyl)-<br>phosphine oxide<br>162881-26-7 | general<br>population | Dermal               | Long term<br>exposure -<br>systemic effects        |                  | 1,5 mg/kg        |         |
| Phenyl bis(2,4,6-trimethylbenzoyl)-<br>phosphine oxide<br>162881-26-7 | general<br>population | oral                 | Long term<br>exposure -<br>systemic effects        |                  | 1,5 mg/kg        |         |
| Hydroquinone<br>123-31-9  | Workers               | Dermal               | Long term<br>exposure -<br>systemic effects        |                  | 128 mg/kg bw/day |         |
| Hydroquinone<br>123-31-9  | Workers               | Inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 7 mg/m3          |         |
| Hydroquinone<br>123-31-9  | Workers               | Inhalation           | Long term<br>exposure - local<br>effects           |                  | 1 mg/m3          |         |
| Hydroquinone<br>123-31-9  | general<br>population | Dermal               | Long term<br>exposure -<br>systemic effects        |                  | 64 mg/kg bw/day  |         |
| Hydroquinone<br>123-31-9  | general<br>population | Inhalation           | Long term<br>exposure -<br>systemic effects        |                  | 1,74 mg/m3       |         |
| Hydroquinone<br>123-31-9  | general<br>population | Inhalation           | Long term<br>exposure - local<br>effects           |                  | 0,5 mg/m3        |         |

## **Biological Exposure Indices:**

None

### 8.2. Exposure controls:

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 (brown)

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Hand protection:

The use of chemical resistant gloves such as Nitrile is recommended.

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:

Wear protective glasses.

Skin protection:

Suitable protective clothing

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Appearance

green

Odor irritating

Odour threshold No data available / Not applicable

pΗ No data available / Not applicable

Initial boiling point > 149 °C (> 300.2 °F)

80 - 93 °C (176 - 199.4 °F); Tagliabue closed cup Flash point

No data available / Not applicable Decomposition temperature

Vapour pressure < 0,6 mbar

(25 °C (77 °F))

< 700 mbar Vapour pressure

(50 °C (122 °F))

Density 1,1 g/cm3

(20 °C (68 °F))

**Bulk** density No data available / Not applicable No data available / Not applicable Viscosity Viscosity (kinematic) No data available / Not applicable No data available / Not applicable Explosive properties Solubility (qualitative) Polymerises in presence of water.

(Solvent: Water)

Solubility (qualitative) Soluble

(Solvent: Acetone)

Solidification temperature No data available / Not applicable No data available / Not applicable Melting point Flammability No data available / Not applicable Auto-ignition temperature No data available / Not applicable Explosive limits No data available / Not applicable Partition coefficient: n-octanol/water No data available / Not applicable No data available / Not applicable Evaporation rate No data available / Not applicable Vapor density No data available / Not applicable Oxidising properties

9.2. Other information

Ignition temperature Not available.

## **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

No decomposition if used according to specifications.

#### 10.5. Incompatible materials

See section reactivity

#### 10.6. Hazardous decomposition products

None known.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### Oral toxicity:

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.

#### Inhalative toxicity:

May cause respiratory irritation.

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

#### Skin irritation:

Causes skin 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

#### Eye irritation:

Causes serious eye irritation.

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

#### Sensitizing:

May produce an allergic reaction.

## Acute oral toxicity:

| Hazardous components  | Value | Value         | Route of    | Exposure | Species | Method                    |
|-----------------------|-------|---------------|-------------|----------|---------|---------------------------|
| CAS-No.               | type  |               | application | time     |         |                           |
| Ethyl 2-cyanoacrylate | LD50  | > 5.000 mg/kg | oral        |          | rat     | OECD Guideline 401 (Acute |
| 7085-85-0             |       |               |             |          |         | Oral Toxicity)            |
| Phenyl bis(2,4,6-     | LD50  | > 2.000 mg/kg | oral        |          | rat     | OECD Guideline 401 (Acute |
| trimethylbenzoyl)-    |       |               |             |          |         | Oral Toxicity)            |
| phosphine oxide       |       |               |             |          |         | ,                         |
| 162881-26-7           |       |               |             |          |         |                           |
| Hydroquinone          | LD50  | 367 mg/kg     | oral        |          | rat     | OECD Guideline 401 (Acute |
| 123-31-9              |       |               |             |          |         | Oral Toxicity)            |

#### Acute dermal toxicity:

| Hazardous components CAS-No. | Value<br>type | Value         | Route of application | Exposure time | Species | Method                    |
|------------------------------|---------------|---------------|----------------------|---------------|---------|---------------------------|
| Ethyl 2-cyanoacrylate        | LD50          | > 2.000 mg/kg | dermal               |               | rabbit  | OECD Guideline 402 (Acute |
| 7085-85-0                    |               |               |                      |               |         | Dermal Toxicity)          |
| Phenyl bis(2,4,6-            | LD50          | > 2.000 mg/kg | dermal               |               | rat     | OECD Guideline 402 (Acute |
| trimethylbenzoyl)-           |               |               |                      |               |         | Dermal Toxicity)          |
| phosphine oxide              |               |               |                      |               |         |                           |
| 162881-26-7                  |               |               |                      |               |         |                           |

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#### Skin corrosion/irritation:

| Hazardous components  | Result              | Exposure | Species | Method                         |
|-----------------------|---------------------|----------|---------|--------------------------------|
| CAS-No.               |                     | time     |         |                                |
| Ethyl 2-cyanoacrylate | slightly irritating | 24 h     | rabbit  | OECD Guideline 404 (Acute      |
| 7085-85-0             |                     |          |         | Dermal Irritation / Corrosion) |

### Serious eye damage/irritation:

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

### Respiratory or skin sensitization:

| Hazardous components CAS-No.    | Result          | Test type                           | Species    | Method |
|---------------------------------|-----------------|-------------------------------------|------------|--------|
| Ethyl 2-cyanoacrylate 7085-85-0 | not sensitising |                                     | guinea pig |        |
| Hydroquinone<br>123-31-9        | sensitising     | Guinea pig<br>maximisat<br>ion test | guinea pig |        |

## Germ cell mutagenicity:

| Hazardous components  | Result   | Type of study /     | Metabolic        | Species | Method                       |
|-----------------------|----------|---------------------|------------------|---------|------------------------------|
| CAS-No.               |          | Route of            | activation /     |         |                              |
|                       |          | administration      | Exposure time    |         |                              |
| Ethyl 2-cyanoacrylate | negative | bacterial reverse   |                  |         | OECD Guideline 471           |
| 7085-85-0             |          | mutation assay (e.g |                  |         | (Bacterial Reverse Mutation  |
|                       |          | Ames test)          |                  |         | Assay)                       |
|                       | negative | mammalian cell      | with and without |         | OECD Guideline 476 (In vitro |
|                       |          | gene mutation assay |                  |         | Mammalian Cell Gene          |
|                       |          |                     |                  |         | Mutation Test)               |
|                       | negative | in vitro mammalian  | with and without |         | OECD Guideline 473 (In vitro |
|                       |          | chromosome          |                  |         | Mammalian Chromosome         |
|                       |          | aberration test     |                  |         | Aberration Test)             |
| Hydroquinone          | negative | bacterial reverse   | with and without |         | EU Method B.13/14            |
| 123-31-9              |          | mutation assay (e.g |                  |         | (Mutagenicity)               |
|                       |          | Ames test)          |                  |         |                              |

### Repeated dose toxicity

| Hazardous components CAS-No. | ents Result Route of Exposure time / application Frequency of |                | •                   | Species | Method                     |  |
|------------------------------|---|----------------|---------------------|---------|----------------------------|--|
|                              |   |                | treatment           |         |                            |  |
| Hydroquinone                 | NOAEL=>= 25   | 0 oral: gavage | 14 days5 days/week. | rat     | OECD Guideline 407         |  |
| 123-31-9                     | mg/kg   |                | 12 doses            |         | (Repeated Dose 28-Day Oral |  |
|                              |   |                |                     |         | Toxicity in Rodents)       |  |
| Hydroquinone                 | LOAEL=<= 50   | 0 oral: gavage | 14 days5 days/week. | rat     | OECD Guideline 407         |  |
| 123-31-9                     | mg/kg   |                | 12 doses            |         | (Repeated Dose 28-Day Oral |  |
|                              |   |                |                     |         | Toxicity in Rodents)       |  |

## **SECTION 12: Ecological information**

#### **General ecological information:**

Biological and Chemical Oxygen Demands (BOD and COD) are insignificant.

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

## 12.1. Toxicity

#### **Ecotoxicity:**

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

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| Hazardous components<br>CAS-No. | Value<br>type | Value       | Acute<br>Toxicity<br>Study | Exposure<br>time | Species  | Method   |
|---------------------------------|---------------|-------------|----------------------------|------------------|--|--|
| Hydroquinone<br>123-31-9        | LC50          | 0,638 mg/l  | Fish                       | 96 h             | Oncorhynchus mykiss  | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)         |
| Hydroquinone<br>123-31-9        | EC50          | 0,134 mg/l  | Daphnia                    | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute                  |
| Hydroquinone<br>123-31-9        | EC50          | 0,335 mg/l  | Algae                      | 72 h             | Selenastrum capricornutum<br>(new name: Pseudokirchnerella | . ( 8,   |
| Hydroquinone<br>123-31-9        | NOEC          | 0,0057 mg/l | chronic<br>Daphnia         | 21 d             | subcapitata)<br>Daphnia magna                              | Inhibition Test) OECD 211 (Daphnia magna, Reproduction Test) |

## 12.2. Persistence and degradability

## Persistence and Biodegradability:

No data available.

| Hazardous components CAS-No.   | Result                | Route of application | Degradability | Method   |
|--|-----------------------|----------------------|---------------|--|
| Ethyl 2-cyanoacrylate<br>7085-85-0                                       |                       | aerobic              | 57 %          | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test)                    |
| Phenyl bis(2,4,6-<br>trimethylbenzoyl)-phosphine<br>oxide<br>162881-26-7 |                       | aerobic              | 1 %           | OECD Guideline 301 B (Ready<br>Biodegradability: CO2 Evolution<br>Test)                    |
| Hydroquinone<br>123-31-9   | readily biodegradable | aerobic              | 75 - 81 %     | EU Method C.4-E (Determination<br>of the "Ready"<br>BiodegradabilityClosed Bottle<br>Test) |

## 12.3. Bioaccumulative potential / 12.4. Mobility in soil

## Mobility:

Cured adhesives are immobile.

## **Bioaccumulative potential:**

No data available.

| Hazardous components<br>CAS-No.  | LogKow | Bioconcentration<br>factor (BCF) | Exposure time | Species | Temperature | Method   |
|--|--------|----------------------------------|---------------|---------|-------------|--|
| Ethyl 2-cyanoacrylate<br>7085-85-0   | 0,776  |                                  |               |         | 22 °C       | EU Method A.8 (Partition<br>Coefficient)   |
| Phenyl bis(2,4,6-<br>trimethylbenzoyl)-phosphine<br>oxide<br>162881-26-7<br>Phenyl bis(2,4,6-<br>trimethylbenzoyl)-phosphine<br>oxide<br>162881-26-7 | 5,8    | < 5                              |               |         |             | OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish) OECD Guideline 117 (Partition Coefficient (noctanol / water), HPLC Method) |
| Hydroquinone<br>123-31-9   | 0,59   |                                  |               |         |             | EU Method A.8 (Partition Coefficient)  |

## 12.5. Results of PBT and vPvB assessment

| Hazardous components | PBT/vPvB |
|----------------------|----------|
| CAS-No.              |          |

| Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide 162881-26-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
|--|---|
| Hydroquinone   | Not fulfilling PBT (persistent/bioaccummulative/toxic) criteria   |
| 123-31-9   |   |

#### 12.6. Other adverse effects

No data available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product disposal:

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

Dispose of in accordance with local and national regulations.

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

Disposal of uncleaned packages:

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

Disposal must be made according to official regulations.

#### Waste code

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

14.2.

## **SECTION 14: Transport information**

### 14.1. UN number

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

# 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 |
| IMDG | Not dangerous good  |

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## 14.4. Packaging group

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

IATA III

## 14.5. Environmental hazards

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

#### 14.6. Special precautions for user

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

IATA Primary packs containing less than 500ml are unregulated by this mode of transport

and may be shipped unrestricted.

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## **SECTION 15: Regulatory information**

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

VOC content <3,00 % (1999/13/EC)

#### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

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### **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

#### **Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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

## **Annex - Exposure Scenarios:**

Exposure Scenarios for ethyl 2-cyanoacrylate can be downloaded under the following link:

http://mymsds.henkel.com/mymsds/.470833..en.ANNEX\_DE.15743123.0.DE.pdf

Alternatively they can be accessed on the internet site www.mymsds.henkel.com by entering number 470833.