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

1.1. Product identifier
LOCTITE 496

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Cyanoacrylate

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:
  - H315 Causes skin irritation.
- Serious eye irritation:
  - H319 Causes serious eye irritation.
- Specific target organ toxicity - single exposure:
  - H335 May cause respiratory irritation.
Target organ: respiratory tract irritation

Category 2

Category 2

Category 3

2.2. Label elements

Label elements (CLP):

Hazard pictogram:

Contains Methyl 2-cyanoacrylate
Signal word: Warning

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


Precautionary statement:

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

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

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

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Concentration</th>
<th>Classification</th>
<th>Specific Conc. Limits, M-factors and ATEs</th>
<th>Add. Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl 2-cyanoacrylate</td>
<td>50–100 %</td>
<td>Eye Irrit. 2, H319</td>
<td>STOT SE 3, H335; Skin Irrit. 2, H315</td>
<td>STOT SE 3; H335; C $\geq$ 10 %</td>
</tr>
<tr>
<td>Hydroquinone</td>
<td>0.01–&lt; 0,1 %</td>
<td>Aquatic Acute 1, H400</td>
<td>Aquatic Chronic 1, H410</td>
<td>M acute = 10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Carc. 2, H351</td>
<td>M chronic = 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Muta. 2, H341</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4, Oral. H302</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
<td></td>
</tr>
</tbody>
</table>

If no ATE values are displayed, please refer to LD/LC50 values in Section 11. For full text of the H - statements and other abbreviations see section 16 "Other information".

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.
Avoid contact with skin and eyes.
Wear protective equipment.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.
6.3. Methods and material for containment and cleaning up

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

Avoid skin and eye contact. See advice in section 8

Ventilation (low level) is recommended when using large volumes

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

Hygiene measures:

Good industrial hygiene practices should be observed.

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

Refer to Technical Data Sheet

7.3. Specific end use(s)

Cyanoacrylate

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for Great Britain

<table>
<thead>
<tr>
<th>Ingredient [Regulated substance]</th>
<th>ppm</th>
<th>mg/m³</th>
<th>Value type</th>
<th>Short term exposure limit category / Remarks</th>
<th>Regulatory list</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mecrilate 137-05-3 [METHYL CYANOACRYLATE]</td>
<td>0.3</td>
<td>1.4</td>
<td>Short Term Exposure Limit (STEL):</td>
<td>15 minutes</td>
<td>EH40 WEL</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9 [HYDROQUINONE]</td>
<td>0.5</td>
<td></td>
<td>Time Weighted Average (TWA):</td>
<td></td>
<td>EH40 WEL</td>
</tr>
</tbody>
</table>

Occupational Exposure Limits

Valid for Ireland

<table>
<thead>
<tr>
<th>Ingredient [Regulated substance]</th>
<th>ppm</th>
<th>mg/m³</th>
<th>Value type</th>
<th>Short term exposure limit category / Remarks</th>
<th>Regulatory list</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mecrilate 137-05-3 [MECRYLATE]</td>
<td>1</td>
<td></td>
<td>Short Term Exposure Limit (STEL):</td>
<td>15 minutes</td>
<td>IR_OEL</td>
</tr>
<tr>
<td>Mecrilate 137-05-3 [MECRYLATE]</td>
<td>0.2</td>
<td></td>
<td>Time Weighted Average (TWA):</td>
<td></td>
<td>IR_OEL</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9 [HYDROQUINONE]</td>
<td>0.5</td>
<td></td>
<td>Time Weighted Average (TWA):</td>
<td></td>
<td>IR_OEL</td>
</tr>
</tbody>
</table>
### Predicted No-Effect Concentration (PNEC):

<table>
<thead>
<tr>
<th>Name on list</th>
<th>Environmental Compartment</th>
<th>Exposure period</th>
<th>Value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>aqua (freshwater)</td>
<td></td>
<td>0.00057 mg/l</td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>aqua (marine water)</td>
<td></td>
<td>0.000057 mg/l</td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>sediment (freshwater)</td>
<td></td>
<td>0.0049 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>sediment (marine water)</td>
<td></td>
<td>0.00049 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>aqua (intermittent releases)</td>
<td></td>
<td>0.00134 mg/l</td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>Soil</td>
<td></td>
<td>0.71 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Name on list</th>
<th>Application Area</th>
<th>Route of Exposure</th>
<th>Health Effect</th>
<th>Exposure Time</th>
<th>Value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>Workers</td>
<td>dermal</td>
<td>Long term exposure - systemic effects</td>
<td>3.33 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>Workers</td>
<td>inhalation</td>
<td>Long term exposure - systemic effects</td>
<td>2.1 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>General population</td>
<td>dermal</td>
<td>Long term exposure - systemic effects</td>
<td>1.66 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>General population</td>
<td>inhalation</td>
<td>Long term exposure - systemic effects</td>
<td>1.05 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>General population</td>
<td>oral</td>
<td>Long term exposure - systemic effects</td>
<td>0.6 mg/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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.
Advises 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery form</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable, Product is a liquid</td>
</tr>
<tr>
<td>Solidification temperature</td>
<td>-3 °C (26.6 °F)</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>&gt; 149,0 °C (&gt; 300.2 °F)None</td>
</tr>
<tr>
<td>Flammability</td>
<td>The product is not flammable.</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>Not applicable, The product is not flammable.</td>
</tr>
<tr>
<td>Flash point</td>
<td>86.5 °C (187.7 °F)</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>470 °C (878 °F)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under pre-seen conditions of use</td>
</tr>
<tr>
<td>pH</td>
<td>&gt; 20.5 mm²/s</td>
</tr>
<tr>
<td>Viscosity (kinematic)</td>
<td></td>
</tr>
<tr>
<td>(40 °C (104 °F); )</td>
<td></td>
</tr>
<tr>
<td>Solubility (qualitative)</td>
<td>Reacts with water.</td>
</tr>
<tr>
<td>(22 °C (71.6 °F); Solvent: Water)</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not applicable, liquid products</td>
</tr>
<tr>
<td>Vapour pressure (24 °C (75.2 °F))</td>
<td>&lt; 0.2 mm³/hg</td>
</tr>
<tr>
<td>Vapour pressure (20 °C (68 °F))</td>
<td>&lt; 49 mbar</td>
</tr>
<tr>
<td>Vapour pressure (50 °C (122 °F))</td>
<td>&lt; 700 hPa/20 method / method unknown</td>
</tr>
<tr>
<td>Density (23.9 °C (75 °F))</td>
<td>1.0900 g/cm³ None</td>
</tr>
<tr>
<td>Bulk density</td>
<td></td>
</tr>
<tr>
<td>Relative vapour density: (25 °C)</td>
<td></td>
</tr>
<tr>
<td>Particle characteristics</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
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:
Cyaanoacrylates are considered to have relatively low toxicity. Acute oral LD₅₀ is >5000mg/kg (rat). It is almost impossible to swallow as it rapidly polymerises in the mouth.
Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals
In dry atmosphere with < 50% humidity, vapours may irritate the eyes and respiratory system

11.1 Information on 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.

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Value type</th>
<th>Value</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl 2-cyanoacrylate 137-05-3</td>
<td>LD₅₀</td>
<td>&gt; 4.440 mg/kg</td>
<td>rat</td>
<td>OECD Guideline 423 (Acute Oral toxicity)</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>LD₅₀</td>
<td>367 mg/kg</td>
<td>rat</td>
<td>OECD Guideline 401 (Acute Oral Toxicity)</td>
</tr>
</tbody>
</table>

Acute dermal toxicity:
The mixture is classified based on calculation method referring to the classified substances present in the mixture.

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Value type</th>
<th>Value</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl 2-cyanoacrylate 137-05-3</td>
<td>LD₅₀</td>
<td>&gt; 2.000 mg/kg</td>
<td>rabbit</td>
<td>equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>LD₅₀</td>
<td>&gt; 2.000 mg/kg</td>
<td>rabbit</td>
<td>OECD Guideline 402 (Acute Dermal Toxicity)</td>
</tr>
</tbody>
</table>

Product is a liquid
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

<table>
<thead>
<tr>
<th>Hazardous substances CAS-No.</th>
<th>Result</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl 2-cyanoacrylate 137-05-3</td>
<td>irritating</td>
<td>24 h</td>
<td>rabbit</td>
<td>not specified</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>not irritating</td>
<td>24 h</td>
<td>rabbit</td>
<td>Weight of evidence</td>
</tr>
</tbody>
</table>

Serious eye damage/irritation:

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

<table>
<thead>
<tr>
<th>Hazardous substances CAS-No.</th>
<th>Result</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl 2-cyanoacrylate 137-05-3</td>
<td>irritating</td>
<td></td>
<td>rabbit</td>
<td>not specified</td>
</tr>
</tbody>
</table>

Respiratory or skin sensitization:

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

<table>
<thead>
<tr>
<th>Hazardous substances CAS-No.</th>
<th>Result</th>
<th>Test type</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl 2-cyanoacrylate 137-05-3</td>
<td>not sensitising</td>
<td>Skin sensitisation</td>
<td>guinea pig</td>
<td>not specified</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>sensitising</td>
<td>Guinea pig maximisation test</td>
<td>guinea pig</td>
<td>equivalent or similar to OECD Guideline 406 (Skin Sensitisation)</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>sensitising</td>
<td>Mouse local lymphnode assay (LLNA)</td>
<td>mouse</td>
<td>equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)</td>
</tr>
</tbody>
</table>
Germ cell mutagenicity:

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

<table>
<thead>
<tr>
<th>Hazardous substances CAS-No.</th>
<th>Result</th>
<th>Type of study / Route of administration</th>
<th>Metabolic activation / Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl 2-cyanoacrylate 137-05-3</td>
<td>negative</td>
<td>bacterial reverse mutation assay (e.g. Ames test)</td>
<td>with and without</td>
<td>mouse</td>
<td>equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)</td>
</tr>
<tr>
<td>Methyl 2-cyanoacrylate 137-05-3</td>
<td>positive</td>
<td>bacterial reverse mutation assay (e.g. Ames test)</td>
<td>with and without</td>
<td>mouse</td>
<td>equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)</td>
</tr>
<tr>
<td>Methyl 2-cyanoacrylate 137-05-3</td>
<td>negative</td>
<td>in vitro mammalian chromosome aberration test</td>
<td>with and without</td>
<td>rat</td>
<td>OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)</td>
</tr>
<tr>
<td>Methyl 2-cyanoacrylate 137-05-3</td>
<td>negative</td>
<td>mammalian cell gene mutation assay</td>
<td>with and without</td>
<td>mouse</td>
<td>OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>negative</td>
<td>bacterial reverse mutation assay (e.g. Ames test)</td>
<td>with and without</td>
<td>mouse</td>
<td>equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>negative</td>
<td>in vitro mammalian chromosome aberration test</td>
<td>with and without</td>
<td>mouse</td>
<td>OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>positive</td>
<td>mammalian cell gene mutation assay</td>
<td>with and without</td>
<td>mouse</td>
<td>OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)</td>
</tr>
<tr>
<td>Methyl 2-cyanoacrylate 137-05-3</td>
<td>negative</td>
<td>not specified</td>
<td>mouse</td>
<td>not specified</td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>positive</td>
<td>intraperitoneal</td>
<td>mouse</td>
<td>equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)</td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>negative</td>
<td>oral: gavage</td>
<td>rat</td>
<td>equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)</td>
<td></td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>positive</td>
<td>intraperitoneal</td>
<td>mouse</td>
<td>equivalent or similar to OECD Guideline 483 (Mammalian Spermatogonial Chromosome Aberration Test)</td>
<td></td>
</tr>
</tbody>
</table>

Carcinogenicity

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

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

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

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

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.

<table>
<thead>
<tr>
<th>Hazardous substances CAS-No.</th>
<th>Result / Value</th>
<th>Route of application</th>
<th>Exposure time / Frequency of treatment</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl 2-cyanoacrylate 137-05-3</td>
<td>NOAEL &gt; 200 mg/kg</td>
<td>oral: feed</td>
<td>90 d daily</td>
<td>rat</td>
<td>equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>NOAEL 50 mg/kg</td>
<td>oral: gavage</td>
<td>13 w 5 d/w</td>
<td>rat</td>
<td>not specified</td>
</tr>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>NOAEL 73.9 mg/kg</td>
<td>dermal</td>
<td>13 w 6 h/d, 5 d/w</td>
<td>rat</td>
<td>equivalent or similar to OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)</td>
</tr>
</tbody>
</table>

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.
The table below presents the data of the classified substances present in the mixture.

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Value type</th>
<th>Value</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>LC50</td>
<td>0.638 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss</td>
<td>OECD Guideline 203 (Fish, Acute Toxicity Test)</td>
</tr>
</tbody>
</table>

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.
The table below presents the data of the classified substances present in the mixture.

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Value type</th>
<th>Value</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>EC50</td>
<td>0.134 mg/l</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)</td>
</tr>
</tbody>
</table>

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Value type</th>
<th>Value</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>NOEC</td>
<td>0.0057 mg/l</td>
<td>21 d</td>
<td>Daphnia magna</td>
<td>OECD 211 (Daphnia magna, Reproduction Test)</td>
</tr>
</tbody>
</table>

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.
The table below presents the data of the classified substances present in the mixture.

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Value type</th>
<th>Value</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>EC50</td>
<td>0.335 mg/l</td>
<td>72 h</td>
<td>Selenastrum capricornatum (new name: Pseudokirchneriella subcapitata)</td>
<td>OECD Guideline 201 (Alga, Growth Inhibition Test)</td>
</tr>
</tbody>
</table>

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.
The table below presents the data of the classified substances present in the mixture.

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Value type</th>
<th>Value</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>EC 50</td>
<td>0.038 mg/l</td>
<td>30 min</td>
<td>not specified</td>
<td>not specified</td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

<table>
<thead>
<tr>
<th>Hazardous substances CAS-No.</th>
<th>Result</th>
<th>Test type</th>
<th>Degradability Exposure time</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>readily biodegradable aerobic 75 - 81 % 30 d</td>
<td>EU Method C.4-E (Determination of the “Ready” Biodegradability Closed Bottle Test)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

<table>
<thead>
<tr>
<th>Hazardous substances CAS-No.</th>
<th>LogPow</th>
<th>Temperature</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>0,59</td>
<td>EU Method A.8 (Partition Coefficient)</td>
<td></td>
</tr>
</tbody>
</table>

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

<table>
<thead>
<tr>
<th>Hazardous substances CAS-No.</th>
<th>PBT / vPvB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone 123-31-9</td>
<td>Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.</td>
</tr>
</tbody>
</table>

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

Dispersion 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
IMDG Not dangerous goods
IATA  9

14.4. Packing group

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

14.5. Environmental hazards

ADR  not applicable
RID  not applicable
ADN  not applicable
IMDG not applicable
IATA  not applicable

14.6. Special precautions for user

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

14.7. 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): Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021): Not applicable
VOC content \((2010/75/EC)\) \(< 3,00 \%\)
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.
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

Further information:
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