

LOCTITE 4105

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

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SDS No.: 173363 V002.7

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Replaces version from: 03.02.2015

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

1.1. Product identifier

LOCTITE 4105

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

Adhesives

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):

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Hazard pictogram:



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 Hydroquinone; Phthalic anhydride. May produce an allergic reaction.

Precautionary statement: P261 Avoid breathing vapours.

Prevention 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 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

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

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|------------------------------------|-------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate 7085-85-0 | 230-391-5 01-2119527766-29 | 50- 100 % | Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315 |
| Hydroquinone 123-31-9 | 204-617-8 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 factor: 10 |
| Phthalic anhydride 85-44-9 | 201-607-5 01-2119457017-41 | 0,1-< 1 % | Acute Tox. 4; Oral H302 STOT SE 3 H335 Skin Irrit. 2 H315 Eye Dam. 1 H318 Resp. Sens. 1 H334 Skin Sens. 1 H317 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

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.

Eve 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.

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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

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.

Avoid skin and eye contact.

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

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

Ensure good ventilation/extraction.

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

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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 ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|-------------------------------------------------------------|-----|-------------------|--------------------------------------|----------------------------------------------|-----------------|
| Ethyl 2-cyanoacrylate 7085-85-0 [ETHYL CYANOACRYLATE] | 0,3 | 1,5 | Short Term Exposure Limit (STEL): | | EH40 WEL |
| Carbon black 1333-86-4 [CARBON BLACK] | | 7 | Short Term Exposure Limit (STEL): | | EH40 WEL |
| Carbon black 1333-86-4 [CARBON BLACK] | | 3,5 | Time Weighted Average (TWA): | | EH40 WEL |
| Hydroquinone 123-31-9 [HYDROQUINONE] | | 0,5 | Time Weighted Average (TWA): | | EH40 WEL |
| Phthalic anhydride 85-44-9 [PHTHALIC ANHYDRIDE] | | 12 | Short Term Exposure Limit (STEL): | | EH40 WEL |
| Phthalic anhydride 85-44-9 [PHTHALIC ANHYDRIDE] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|-------------------------------|------------------------------------|-----------------|-------|-----|----------------|--------------|---------|
| | Compartment | periou | mg/l | ppm | mg/kg | others | |
| Hydroquinone 123-31-9 | aqua (freshwater) | | | | | 0,114 μg/L | |
| Hydroquinone 123-31-9 | aqua (marine water) | | | | | 0,0114 μg/L | |
| Hydroquinone 123-31-9 | sediment (freshwater) | | | | | 0,98 µg/kg | |
| Hydroquinone 123-31-9 | sediment (marine water) | | | | | 0,097 μg/kg | |
| Hydroquinone 123-31-9 | aqua (intermittent releases) | | | | | 0,00134 mg/L | |
| Hydroquinone 123-31-9 | soil | | | | | 0,129 μg/kg | |
| Hydroquinone 123-31-9 | STP | | | | | 0,71 mg/L | |
| Phthalic anhydride 85-44-9 | soil | | | | 0,173 mg/kg | | |
| Phthalic anhydride 85-44-9 | STP | | | | | 10 mg/L | |
| Phthalic anhydride 85-44-9 | sediment (freshwater) | | | | 3,8 mg/kg | | |
| Phthalic anhydride 85-44-9 | sediment (marine water) | | | | 0,38 mg/kg | | |
| Phthalic anhydride 85-44-9 | aqua (marine water) | | | | | 0,1 mg/L | |
| Phthalic anhydride 85-44-9 | aqua (intermittent releases) | | | | | 5,6 mg/L | |
| Phthalic anhydride 85-44-9 | aqua (freshwater) | | | | | 1 mg/L | |

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Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|------------------------------------|-----------------------|----------------------|---------------------------------------------|------------------|------------------|---------|
| Ethyl 2-cyanoacrylate 7085-85-0 | Workers | Inhalation | Long term exposure - local effects | | 9,25 mg/m3 | |
| Ethyl 2-cyanoacrylate 7085-85-0 | Workers | Inhalation | Long term exposure - systemic effects | | 9,25 mg/m3 | |
| Ethyl 2-cyanoacrylate 7085-85-0 | general population | Inhalation | Long term exposure - local effects | | 9,25 mg/m3 | |
| Ethyl 2-cyanoacrylate 7085-85-0 | general population | Inhalation | Long term exposure - systemic effects | | 9,25 mg/m3 | |
| Hydroquinone 123-31-9 | Workers | Dermal | Long term exposure - systemic effects | | 128 mg/kg bw/day | |
| Hydroquinone 123-31-9 | Workers | Inhalation | Long term exposure - systemic effects | | 7 mg/m3 | |
| Hydroquinone 123-31-9 | Workers | Inhalation | Long term exposure - local effects | | 1 mg/m3 | |
| Hydroquinone 123-31-9 | general population | Dermal | Long term exposure - systemic effects | | 64 mg/kg bw/day | |
| Hydroquinone 123-31-9 | general population | Inhalation | Long term exposure - systemic effects | | 1,74 mg/m3 | |
| Hydroquinone 123-31-9 | general population | Inhalation | Long term exposure - local effects | | 0,5 mg/m3 | |
| Phthalic anhydride 85-44-9 | Workers | inhalation | Long term exposure - systemic effects | | 32,2 mg/m3 | |
| Phthalic anhydride 85-44-9 | Workers | Dermal | Long term exposure - systemic effects | | 10 mg/kg bw/day | |
| Phthalic anhydride 85-44-9 | general population | inhalation | Long term exposure - systemic effects | | 8,6 mg/m3 | |
| Phthalic anhydride 85-44-9 | general population | Dermal | Long term exposure - systemic effects | | 5 mg/kg bw/day | |
| Phthalic anhydride 85-44-9 | general population | oral | Long term exposure - systemic effects | | 5 mg/kg bw/day | |

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

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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:

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid

liquid black

Odor Irritating

Odour threshold No data available / Not applicable

pH No data available / Not applicable

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

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

Decomposition temperature No data available / Not applicable

Vapour pressure < 0,6 mbar

(25 °C (77 °F))

Vapour pressure < 700 mbar

(50 °C (122 °F))

Density 1,1 g/cm³

(20 °C (68 °F))

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

(Solvent: Water)

Solidification temperature No data available / Not applicable Melting point No data available / Not applicable No data available / Not applicable Flammability No data available / Not applicable Auto-ignition temperature **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

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

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10.4. Conditions to avoid

No decomposition if used according to specifications.

10.5. Incompatible materials

See section reactivity

10.6. Hazardous decomposition products

carbon oxides.

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.

STOT-single exposure:

May cause respiratory irritation.

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:

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 cause 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) |
| Hydroquinone | LD50 | 367 mg/kg | oral | | rat | OECD Guideline 401 (Acute |
| 123-31-9 | | | | | | Oral Toxicity) |
| Phthalic anhydride | LD50 | 1.530 mg/kg | oral | | rat | - |
| 85-44-9 | | | | | | |

Acute dermal toxicity:

| Hazardous components | Value | Value | Route of | Exposure | Species | Method |
|-----------------------|-------|----------------|-------------|----------|---------|---------------------------|
| CAS-No. | type | | application | time | | |
| Ethyl 2-cyanoacrylate | LD50 | > 2.000 mg/kg | dermal | | rabbit | OECD Guideline 402 (Acute |
| 7085-85-0 | | | | | | Dermal Toxicity) |
| Phthalic anhydride | LD50 | > 10.000 mg/kg | dermal | | rabbit | • |
| 85-44-9 | | | | | | |

Skin corrosion/irritation:

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

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Serious eye damage/irritation:

| Hazardous components | Result | Exposure | Species | Method |
|-----------------------|-------------------|----------|---------|-----------------------------|
| CAS-No. | | time | | |
| Ethyl 2-cyanoacrylate | irritating | 72 h | rabbit | OECD Guideline 405 (Acute |
| 7085-85-0 | | | | Eye Irritation / Corrosion) |
| Phthalic anhydride | highly irritating | | rabbit | |
| 85-44-9 | | | | |

Respiratory or skin sensitization:

| Hazardous components CAS-No. | Result | Test type | Species | Method |
|---------------------------------|-----------------|-------------------------------------------------|------------|------------------------------------|
| Ethyl 2-cyanoacrylate 7085-85-0 | not sensitising | | guinea pig | |
| Hydroquinone 123-31-9 | sensitising | Guinea pig maximisat ion test | guinea pig | |
| Phthalic anhydride 85-44-9 | sensitising | in vivo | guinea pig | |
| Phthalic anhydride 85-44-9 | sensitising | Mouse local lymphnod e assay (LLNA) | mouse | Mouse local lymphnode assay (LLNA) |

Germ cell mutagenicity:

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---------------------------------|----------|--------------------------------------------------------|--------------------------------------------|---------|--------------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate 7085-85-0 | negative | bacterial reverse mutation assay (e.g Ames test) | | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Hydroquinone 123-31-9 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | EU Method B.13/14 (Mutagenicity) |
| Phthalic anhydride 85-44-9 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | |

Repeated dose toxicity

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Method |
|------------------------------|-----------------------|----------------------|----------------------------------------------|---------|--------------------------------------------------------------------------|
| Hydroquinone 123-31-9 | NOAEL=>= 250 mg/kg | oral: gavage | 14 days5 days/week. 12 doses | rat | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
| Hydroquinone 123-31-9 | LOAEL=<= 500 mg/kg | oral: gavage | 14 days5 days/week. 12 doses | rat | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |

SECTION 12: Ecological information

General ecological 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.

12.1. Toxicity

Ecotoxicity:

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

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| Hazardous components | Value | Value | Acute | Exposure | Species | Method |
|----------------------|-------|-------------|----------|----------|-------------------------------|--------------------|
| CAS-No. | type | | Toxicity | time | | |
| | | | Study | | | |
| Hydroquinone | LC50 | 0,638 mg/l | Fish | 96 h | Oncorhynchus mykiss | OECD Guideline |
| 123-31-9 | | | | | | 203 (Fish, Acute |
| | lll | | | | | Toxicity Test) |
| Hydroquinone | EC50 | 0,134 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline |
| 123-31-9 | | | | | | 202 (Daphnia sp. |
| | | | | | | Acute |
| | | | | | | Immobilisation |
| | | |] | | | Test) |
| Hydroquinone | EC50 | 0,335 mg/l | Algae | 72 h | Selenastrum capricornutum | OECD Guideline |
| 123-31-9 | | | | | (new name: Pseudokirchnerella | 201 (Alga, Growth |
| | | | | | subcapitata) | Inhibition Test) |
| Hydroquinone | NOEC | 0,0057 mg/l | chronic | 21 d | Daphnia magna | OECD 211 |
| 123-31-9 | | | Daphnia | | | (Daphnia magna, |
| | | | | | | Reproduction Test) |
| Phthalic anhydride | LC50 | 313 mg/l | Fish | 48 h | Leuciscus idus | DIN 38412-15 |
| 85-44-9 | l l | | | | | |
| Phthalic anhydride | EC50 | 68 mg/l | Algae | 72 h | Selenastrum sp. | OECD Guideline |
| 85-44-9 | | | | | | 201 (Alga, Growth |
| | | | | | | Inhibition Test) |

12.2. Persistence and degradability

Persistence and Biodegradability:

The product is not biodegradable.

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|------------------------------------|-----------------------|----------------------|---------------|--------------------------------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate 7085-85-0 | | aerobic | 57 % | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Hydroquinone 123-31-9 | readily biodegradable | aerobic | 75 - 81 % | EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test) |
| Phthalic anhydride 85-44-9 | | aerobic | 90 % | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Mobility:

Cured adhesives are immobile.

Bioaccumulative potential:

No data available.

| Hazardous components CAS-No. | LogKow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|------------------------------------|--------|-------------------------------|---------------|---------|-------------|---------------------------------------|
| Ethyl 2-cyanoacrylate 7085-85-0 | 0,776 | | | | 22 °C | EU Method A.8 (Partition Coefficient) |
| Hydroquinone 123-31-9 | 0,59 | | | | | EU Method A.8 (Partition Coefficient) |
| Phthalic anhydride 85-44-9 | 1,6 | | | | | |

12.5. Results of PBT and vPvB assessment

| Hazardous components | PBT/vPvB |
|----------------------|--------------------------------------------------------------------------------------|
| CAS-No. | |
| Hydroquinone | Not fulfilling PBT (persistent/bioaccummulative/toxic) criteria |
| 123-31-9 | |
| Phthalic anhydride | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 85-44-9 | Bioaccumulative (vPvB) criteria. |

12.6. Other adverse effects

No data available.

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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.

Disposal of uncleaned packages:

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

Disposal must be made according to official regulations.

Waste code

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

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

SECTION 14: Transport information

14.1. UN number

| ADR | Not dangerous goods |
|-------|---------------------|
| RID | Not dangerous goods |
| ADN | Not dangerous goods |
| IMDG | Not dangerous goods |
| T 1 1 | 2221 |

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. 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

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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 % (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.

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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.

Label elements (DPD):

Xi - Irritant



Risk phrases:

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:

S23 Do not breathe vapour.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Additional labeling:

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

Contains Phthalic anhydride, Hydroquinone. May produce an allergic reaction.

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.