



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

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LOCTITE 454 GEL ADHESIVE

SDS No. : 649680

V004.5

Revision: 10.04.2025

printing date: 29.08.2025

Replaces version from: 07.04.2025

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

#### 1.1. Product identifier

LOCTITE 454 GEL ADHESIVE

UFI: MAK2-7WRP-G202-F235

#### 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 AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website [www.mysds.henkel.com](http://www.mysds.henkel.com) or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Skin irritation

Category 2

H315 Causes skin irritation.

Serious eye irritation

Category 2

H319 Causes serious eye irritation.

Specific target organ toxicity - single exposure

Category 3

H335 May cause respiratory irritation.

Target organ: respiratory tract irritation

#### 2.2. Label elements

##### Label elements (CLP):

**Hazard pictogram:**



**Contains**

Ethyl 2-cyanoacrylate

**Signal word:**

Warning

**Hazard statement:**

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

**Supplemental information**

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

**Precautionary statement:  
Prevention**

P261 Avoid breathing vapors.  
P280 Wear protective gloves/eye protection.

**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

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

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg. No.      | Concentration | Classification                                               | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|---------------------------------------------------------------------|---------------|--------------------------------------------------------------|-------------------------------------------|------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0<br>230-391-5<br>01-2119527766-29 | 50- 100 %     | Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Skin Irrit. 2, H315 | STOT SE 3; H335; C $\geq$ 10 %            |                  |

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 (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) 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**

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:

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)**

Adhesive

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

##### **Occupational Exposure Limits**

Valid for  
Germany

None

**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/m <sup>3</sup> |         |
| Ethyl 2-cyanoacrylate 7085-85-0 | Workers            | Inhalation        | Long term exposure - systemic effects |               | 9,25 mg/m <sup>3</sup> |         |
| Ethyl 2-cyanoacrylate 7085-85-0 | General population | Inhalation        | Long term exposure - local effects    |               | 9,25 mg/m <sup>3</sup> |         |
| Ethyl 2-cyanoacrylate 7085-85-0 | General population | Inhalation        | Long term exposure - systemic effects |               | 9,25 mg/m <sup>3</sup> |         |

**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 &gt; 30 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq$  0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to &gt; 480 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq$  0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Polyethylene or polypropylene gloves are recommended when using large volumes.

Do not use PVC, rubber or nylon gloves.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                                                                                                                  |                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Delivery form                                                                                                                                    | liquid                                                                                                                              |
| Colour                                                                                                                                           | Colourless / Colorless, Clear                                                                                                       |
| Odor                                                                                                                                             | irritating                                                                                                                          |
| Physical state                                                                                                                                   | liquid                                                                                                                              |
| Melting point                                                                                                                                    | Not applicable, Product is a liquid                                                                                                 |
| Solidification temperature                                                                                                                       | < -25 °C (< -13 °F)                                                                                                                 |
| Initial boiling point                                                                                                                            | > 149 °C (> 300.2 °F)                                                                                                               |
| Flammability                                                                                                                                     | The product is not flammable.                                                                                                       |
| Explosive limits                                                                                                                                 | Not applicable, The product is not flammable.                                                                                       |
| Flash point                                                                                                                                      | 80 - 93 °C (176 - 199.4 °F)                                                                                                         |
| Auto-ignition temperature                                                                                                                        | Not applicable, The product is not flammable.                                                                                       |
| Decomposition temperature                                                                                                                        | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH                                                                                                                                               | Product reacts with water., Not applicable                                                                                          |
| Viscosity (kinematic)<br>(40 °C (104 °F); )                                                                                                      | > 20,5 mm <sup>2</sup> /s                                                                                                           |
| Viscosity, dynamic<br>(BROOKFIELD WITH HELIPATH; Instrument:<br>RVT; 25 °C (77 °F); speed of rotation: 20 min <sup>-1</sup> ;<br>Spindle No: TC) | 18.000,00 - 40.000,00 mPa.s LCT STM 10; Viscosity Brookfield                                                                        |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water)                                                                                      | Polymerises in presence of water.                                                                                                   |
| Partition coefficient: n-octanol/water                                                                                                           | Not applicable                                                                                                                      |
| Vapour pressure<br>(20 °C (68 °F))                                                                                                               | Mixture                                                                                                                             |
| Vapour pressure<br>(50 °C (122 °F))                                                                                                              | < 0,5 mm hg;no method / method unknown                                                                                              |
| Density<br>(20 °C (68 °F))                                                                                                                       | < 700 mbar;no method / method unknown                                                                                               |
| Relative vapour density:<br>(20 °C)                                                                                                              | 1,05 g/cm <sup>3</sup> no method / method unknown                                                                                   |
| Particle characteristics                                                                                                                         | > 1                                                                                                                                 |
|                                                                                                                                                  | Not applicable                                                                                                                      |
|                                                                                                                                                  | Product is a liquid                                                                                                                 |

### 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

Stable under normal conditions of storage and use.

**10.5. Incompatible materials**

See section reactivity.

**10.6. Hazardous decomposition products**

None if used for intended purpose.

**SECTION 11: Toxicological information****General toxicological information:**

Cyanoacrylates are considered to have relatively low toxicity. Acute oral LD50 is >5000mg/kg (rat). It is almost impossible to swallow as it rapidly polymerises in the mouth.

Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals

In dry atmosphere with < 50% humidity, vapours may irritate the eyes and respiratory system

**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.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No.    | Value<br>type | Value         | Species | Method                                                            |
|------------------------------------|---------------|---------------|---------|-------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | LD50          | > 5.000 mg/kg | rat     | equivalent or similar to OECD Guideline 423 (Acute Oral toxicity) |

**Acute dermal toxicity:**

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

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No.    | Value<br>type | Value         | Species | Method                                                              |
|------------------------------------|---------------|---------------|---------|---------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | LD50          | > 2.000 mg/kg | rabbit  | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

No data available.

**Skin corrosion/irritation:**

Bonds skin in seconds. Considered to be of low toxicity: acute dermal LD50 (rabbit)>2000mg/kg

Due to polymerisation at the skin surface allergic reaction is unlikely to occur

| Hazardous substances<br>CAS-No.    | Result                 | Exposure<br>time | Species | Method                                                                            |
|------------------------------------|------------------------|------------------|---------|-----------------------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | slightly<br>irritating | 24 h             | rabbit  | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

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

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

**Respiratory or skin sensitization:**

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

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No.    | Result          | Test type                       | Species    | Method                                                              |
|------------------------------------|-----------------|---------------------------------|------------|---------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | not sensitising | Guinea pig maximisation<br>test | guinea pig | equivalent or similar to OECD Guideline<br>406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

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

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No.    | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species | Method                                                                               |
|------------------------------------|----------|--------------------------------------------------------|--------------------------------------------|---------|--------------------------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | equivalent or similar to OECD<br>Guideline 471 (Bacterial<br>Reverse Mutation Assay) |
| Ethyl 2-cyanoacrylate<br>7085-85-0 | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)             |
| Ethyl 2-cyanoacrylate<br>7085-85-0 | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                |

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

No data available.

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

No data available.

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable



## SECTION 12: Ecological information

### General ecological information:

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

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

### 12.1. Toxicity

#### Toxicity (Fish):

No data available.

#### Toxicity (aquatic invertebrates):

No data available.

#### Chronic toxicity (aquatic invertebrates):

No data available.

#### Toxicity (Algae):

No data available.

#### Toxicity (microorganisms):

No data available.

### 12.2. Persistence and degradability

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

| Hazardous substances<br>CAS-No.    | Result                     | Test type | Degradability | Exposure<br>time | Method                                                                  |
|------------------------------------|----------------------------|-----------|---------------|------------------|-------------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | not readily biodegradable. | aerobic   | 57 %          | 28 d             | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test) |

### 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.

| Hazardous substances<br>CAS-No.    | LogPow | Temperature | Method                                |
|------------------------------------|--------|-------------|---------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | 0,776  | 22 °C       | EU Method A.8 (Partition Coefficient) |

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

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

| Hazardous substances<br>CAS-No.    | PBT / vPvB                                                                                                            |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Ethyl 2-cyanoacrylate<br>7085-85-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Endocrine disrupting properties**

not applicable

**12.7. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Product disposal:

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

Dispose of in accordance with local and national regulations.

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

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

Disposal of uncleaned packages:

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

Waste code

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

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

**SECTION 14: Transport information****14.1. UN number or ID number**

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

**14.2. UN proper shipping name**

|      |                                                         |
|------|---------------------------------------------------------|
| ADR  | Not dangerous goods                                     |
| RID  | Not dangerous goods                                     |
| ADN  | Not dangerous goods                                     |
| IMDG | Not dangerous goods                                     |
| IATA | Aviation regulated liquid, n.o.s. (Cyanoacrylate ester) |

**14.3. Transport hazard class(es)**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| 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 2024/590): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):    | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):     | Not applicable |

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|                             |       |
|-----------------------------|-------|
| VOC content<br>(2010/75/EC) | < 3 % |
|-----------------------------|-------|

**National regulations/information (Germany):**

|      |                                                                                                                                                                             |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WGK: | WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )<br>Classification according to AwSV, Annex 1 (5.2) |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                      |    |
|--------------------------------------|----|
| Storage class according to TRGS 510: | 10 |
|--------------------------------------|----|

**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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

### Further information:

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel's Product Safety and Regulatory Affairs Department (SDSinfo.Adhesive@henkel.com) prior to export to other territories than the European Union.

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.

### Abbreviations and acronyms:

ADG(-Code): Australian Dangerous Goods (Code)  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ASTM: American Society for Testing and Materials  
 ATE: acute toxicity estimate  
 AS: Australian Standard  
 AwSV: Ordinance on Installations for the Handling of Substances Hazardous to Water  
 CAS: Chemical Abstract Service  
 CLP: Regulation (EC) No 1272/2008  
 CMR: cancerogenic, mutagenic or reprotoxic  
 DIN: German Institute for Standardization  
 ECx: Effective concentration (x% effective level)  
 ECHA: European Chemicals Agency  
 EC-Nummer: Substance number in the EU-inventories EINECS/ELINCS  
 ECTLV: European community threshold limit value  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 EN : European Standard  
 ENCS: Japanese chemical inventory  
 EPA: US Environmental Protection Agency  
 EU: European Union  
 EWC: European Waste Catalogue  
 GHS: Globally Harmonised System for Classification and Labelling of Chemicals  
 GLP: Good Laboratory Practice  
 HSNO: Hazardous Substances and New Organisms  
 IARC: International Agency for Research of Cancer  
 IATA: International Air Transport Association  
 IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50: half maximal inhibitory concentration  
 ICAO: International Civil Aviation Organization  
 IMDG-Code: International Maritime Code for Dangerous Goods  
 IMO: International Maritime Organization

ISO: International Standardization Organisation  
LC50: Median lethal concentration  
LD50: Median lethal dose  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
n.o.s.: not otherwise specified  
NO(A)EC: No (adverse) effect concentration  
NO(A)EL: No (adverse) effect level  
NZS: New Zealand Standard  
OECD: Organisation for Economic Co-operation and Development  
OEL: Occupational Exposure Limit  
OPPT: US EPA Office of Pollution Prevention and Toxics  
OPPTS: US EPA Office of Prevention, Pesticides and Toxic Substances  
PBT: Persistent, bioaccumulative, toxic  
(Q)SAR: (Quantitative) structure–activity relationship  
REACH: Regulation (EC) No. 1907/2006  
RID: Regulations concerning the International Transport of Dangerous Goods by Rail  
SADT: Self Accelerating Decomposition Temperature  
SDS: Safety Data Sheet  
STOT: Specific Target Organ Toxicity  
STOT SE: Specific Target Organ Toxicity - single exposure  
STOT RE: Specific Target Organ Toxicity - repeated exposure  
SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons  
TRGS: German Technical Rules for hazardous substances  
UN: United Nations  
VOC: Volatile Organic Compound  
814.018 VOC Reg CH: Swiss Ordinance 814.018 on the Incentive Tax on Volatile Organic Compounds  
vPvB: Very persistent, very bioaccumulative  
VwVwS: Administrative Regulation on Substances Hazardous to Waters  
WGK: Water hazard class

Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your\_company.com).

**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:  
<https://mysds.henkel.com/index.html#/appSelection>