

**Safety Data Sheet**  
according to HPR, Schedule 1

Date of issue 08/31/2025

Version number 1

Revision: 08/21/2025

**1 Identification**

- **Product identifier**
- **Trade name: 1-CA80**
- **Other means of identification**
- **Application of the substance / the mixture** Adhesives
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Hottinger Brüel & Kjaer GmbH  
Im Tiefen See 45  
D-64293 Darmstadt  
Germany  
Tel: +49 6151 803 0  
E-Mail: info@hbkworld.com  
https://www.hbkworld.com
- **Information department:**  
Tel. +49(0)6131 19240  
EMail support-esa@hbkworld.com
- **Emergency telephone number:**  
Canada:  
+1 800 332 1414 (Alberta, NW Territories);  
+1 866 454 1212 (Saskatchewan);  
+1 403 944 1414 (Calgary, outside Alberta, VOIP users)  
Poison and Drug Information Services  
Foothills Medical Centre  
1403 29th Street N.W.  
T2N 2T9 Calgary  
  
National Capital Poison Center, U.S.A.:  
1-800-222-1222  
3201 New Mexico Ave Ste 310  
20016 Washington, DC  
USA  
CHEMTREC: +1 703-741-5970 (24h emergency call).  
Outside continental USA please call CHEMTREC at +1-703-527-3887 (R-calls are accepted).

**2 Hazard identification**

- **Classification of the substance or mixture**



Skin Irritation - Category 2	H315 Causes skin irritation.
Eye damage/irritation – Category 2A	H319 Causes serious eye irritation.
Specific target organ toxicity (single exposure) – Category 3	H335 May cause respiratory irritation.
Flammable liquids – Category 4	H227 Combustible liquid.

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- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
Ethyl 2-cyanoacrylate
- **Hazard statements**  
H227 Combustible liquid.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.
- **Precautionary statements**  
P261 Avoid breathing mist/vapors/spray.  
P280 Wear protective gloves / eye protection / face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**  
Please refer to additional labeling elements in Section 15 of this Safety Data Sheet, if applicable.

### 3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below, possibly with undeclared additives.

- **Dangerous components:**

7085-85-0	Ethyl 2-cyanoacrylate	80 - 100% w/w *
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\* Actual concentration ranges are withheld as a trade secret.

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Personal protection for the First Aider.  
If symptoms occur or in case of doubt consult a doctor.
- **After inhalation:**  
In case of unconsciousness place patient stably in side position for transportation.  
Provide fresh air, in case of symptoms consult a doctor.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.

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If skin irritation continues, consult a doctor.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Remove contact lenses if possible.

Do not rub eyes dry, the mechanical stress can cause additional cornea damages.

Protect unharmed eye.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. In the unlikely event of adhesive entering the mouth it will solidify on contact with the moisture in the mouth bonding directly on the surfaces in the mouth. Saliva will gradually debond the adhesive over a period of hours. Do not try to pull the polymerised adhesive from the mouth. Keep checking the mouth to ensure that the person doesn't swallow it when it detaches.

- **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Use fire fighting measures that suit the environment.

Alcohol-resistant foam, extinguishing powder or carbon dioxide. Fight larger fire with water spray.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **Special hazards arising from the substance or mixture**

Inhalation of combustion gases may cause serious health hazards.

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen cyanide (HCN)

- **Advice for firefighters**

- **Protective equipment:** Wear self-contained respiratory protective device.

- **Additional information** If possible without risk, move containers from fire area.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.

- **For non-emergency personnel** Avoid contact with the product.

- **For emergency responders** Put on suitable personal protective equipment.

- **Environmental precautions:** Do not allow to enter drainage system, ground/soil and water bodies.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the collected material according to regulations.

Ensure adequate ventilation.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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### 7 Handling and storage

- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Only store in suitable containers (e.g. containers authorised under dangerous goods legislation).
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly closed and store in a dry, cool and well ventilated place.  
Protect from heat and direct sunlight.  
Protect from humidity and water.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/ Personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
TLV: Threshold Limit Value

#### 7085-85-0 Ethyl 2-cyanoacrylate

EL	TWA: 0.2 ppm S(D); S(R)
EV	TWA: 0.2 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

Only use chemical-protective gloves with CE-labeling of category III.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Recommended material thickness: 0.3 mm, breakthrough time: 60 min.

Nitrile rubber, NBR

Recommended material thickness: 0.4 mm, breakthrough time: 10 min.

- **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles



Face protection

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Liquid

- **Color:**

Colorless

- **Odor:**

Characteristic

- **Odor threshold:**

Not determined.

- **Melting point/Melting range:**

Undetermined.

- **Boiling point/Boiling range:**

214 °C

- **Flammability:**

Not applicable.

- **Explosion limits:**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

> 80 °C

- **Auto igniting:**

Product is not selfigniting.

- **Decomposition temperature:**

Not determined.

- **SADT**

- **pH-value at 20 °C:**

~ 7

- **Viscosity:**

- **Dynamic:**

Not determined.

- **Solubility in / Miscibility with**

- **Water:**

Not miscible or difficult to mix.

- **Segregation coefficient (n-octanol/water):**

Not determined.

- **Vapor pressure:**

Not determined.

- **Density at 20 °C:**

1.04 g/cm<sup>3</sup>

- **Relative density**

Not determined.

- **Vapor density**

Not determined.

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| <b>· Particle characteristics</b>  | No further details.                           |
| <b>· Other information</b>   |   |
| <b>· Appearance:</b>   |   |
| <b>· Form:</b>   | Fluid   |
| <b>· Important information on protection of health and environment, and on safety.</b> |   |
| <b>· Ignition temperature:</b>   | Product is not selfigniting.                  |
| <b>· Danger of explosion:</b>  | Product does not present an explosion hazard. |
| <b>· Change in condition</b>   |   |
| <b>· Evaporation rate</b>  | Not determined.                               |

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
None in case of intended use and storage in compliance with instructions.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

#### 7085-85-0 Ethyl 2-cyanoacrylate

Dermal	LD50	> 2,000 mg/kg (Rabbit) (OECD 402)
Inhalative	LC50	> 5,000 mg/l/4h (Rat) (OECD 423)

#### 123-31-9 hydroquinone

Oral	LD50	> 375 mg/kg (Rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

123-31-9	hydroquinone	
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

- **123-31-9 hydroquinone**

NOEC 0.006 mg/l/21d (Daphnia magna)

- **Persistence and degradability** No further relevant information available.
- **Other information:** There are no data available about the preparation.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water (german regulation)  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**  
Dispose of packaging according to regulations on the disposal of packagings.  
Non contaminated packagings can be used for recycling.  
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

### 14 Transport information

- **UN-Number**
- **DOT/TDG, ADR, IMDG, IATA** Void
- **UN proper shipping name**
- **DOT/TDG, ADR, ADN, IMDG, IATA** Void
- **Transport hazard class(es)**
- **DOT/TDG (Transport dangerous goods):**
- **Class** Void  
No hazardous good

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· <b>ADR, ADN, IMDG</b>	
· <b>Class</b>	Void
· <b>IATA</b>	
· <b>Class</b>	Void Not Restricted
· <b>Packing group</b>	
· <b>DOT/TDG, ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>Special precautions for user</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**

123-31-9 hydroquinone

· **Section 313 (Specific toxic chemical listings):**

123-31-9 hydroquinone

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

7085-85-0 Ethyl 2-cyanoacrylate

· **Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

· **Per- and polyfluoroalkyl substances (PFAS)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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**· Department issuing SDS:**

*This Safety Data Sheet has been drawn up in cooperation with:  
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**· Kit-Components:****· Date of preparation 08/31/2025****· Abbreviations and acronyms:***IMDG: International Maritime Code for Dangerous Goods**DOT: US Department of Transportation**IATA: International Air Transport Association**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative***· \* Data compared to the previous version altered.**

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