



## Safety Data Sheet



**Signal word: WARNING**

**Hazard statements:**

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

**Precautionary statement:**

*Prevention:*

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing vapours.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection/ face protection.

*Response:*

P302+P352 IF ON SKIN: Wash with plenty water and soap.

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.

P312 Call a POISON CENTER/doctor if you feel unwell

P332+P313 If skin irritation occurs: Get medical advice/attention

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

P362+P364 Take off contaminated clothing and wash it before reuse.

*Storage:*

P405 Store locked up.

## Safety Data Sheet

*Disposal:*

P501 Dispose of content/container to in accordance with local/national regulations.

**Component on the label:**

Ethyl-2-cyanoacrylate

**2.3 Other hazards**

People who are allergic to cyanoacrylates should avoid the use of the product.

PBT and vPvB evaluations are in chapter 12.5

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

Chemical name	CAS Nr. EC-Number INDEX number	%	Classification according to EC 1272/2008	
			Hazardous class/hazardous category	Hazardous phrases
<b>Ethyl-2-cyanoacrylate</b>	607-236-00-9 230-391-5 7085-85-0	70-90	Eye Irrit. 2 STOT SE 3 Skin Irrit. 2	H319 H335 H315
<b>1,4-Dihydroxybenzene</b>	604-005-00-4 204-617-8 123-31-9	< 0,1	Carc. 2 Muta. 2 Acute Tox. 4 * Eye Dam. 1 Skin Sens. 1 Aquatic Acute 1	H351 H341 H302 H318 H317 H400

### **SECTION 4: First Aid Measures**

**4.1 Description of first aid measures**

*General information*

Take off contaminated clothing and wash before reuse.

*Inhalation:*

Ensure supply of fresh air. In the event of symptoms seek medical treatment.

*Skin contact:*

In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. Do not pull solidified product from skin forcibly.

*Eye contact:*

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Do not open bonded eyelids forcibly and without any special care.

## Safety Data Sheet

### *Ingestion:*

Get medical advice. Do not induce vomiting. Do not give anything to drink.

The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard. Ensure breathing passages are not obstructed. Saliva will separate the solidified product from the mouth 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.

### **4.2 Most important symptoms and effects, both acute and delayed**

Cyanoacrylates give off heat on solidification. Gross contamination with the adhesive may generate enough heat to cause a burn. Burns should be treated normally after the polymer has been removed gently from the skin. If the person experiences a burning sensation flood the contaminated skin immediately with plenty of cold water to cool the burn. Continue to remove the adhesive by gently peeling or rolling it from the skin whilst soaking the contaminated area in cold water. It will take longer to remove the adhesive with cold water but it will still be effective.

Accidental bonding of clothing with cyanoacrylate adhesive on the human skin:

If the cyanoacrylate adhesive has been splashed on the clothing and has soaked through to the skin the clothing should never be forcibly removed from the skin. If the clothing has bonded directly on the skin and the person isn't experiencing a burning sensation the affected area should be soaked with warm soapy water and the clothing removed gently by peeling or rolling back. Cold water should be used in cases where there is any burning sensation. Forcible removal of bonded clothing from the skin could lead to mechanical damage occurring to the skin and this could result in a more severe injury.

### **4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment. Forward this sheet to the doctor.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

*Suitable:*

Carbon dioxide. Water spray jet. Sand. Dry powder

*Unsuitable:*

Full water jet

### **5.2 Special hazards arising from the substance or mixture**

Carbon monoxide (CO). Risk of formation of toxic pyrolysis products.

### **5.3 Advice for firefighters**

## Safety Data Sheet

Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.

Collect contaminated firefighting water separately, must not be discharged into the drains. Cool containers at risk with water spray jet.

### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Keep away from all sources of ignition. Forms slippery surfaces with water. Use breathing apparatus if exposed to vapours/dust/aerosol.

#### **6.2 Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.

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

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.

#### **6.4 Reference to other sections**

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

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

#### **7.1 Precautions for safe handling**

Use only in well-ventilated areas. Avoid spilling or spraying in enclosed areas. Highly volatile, flammable components are liberated in processing. Keep away from all sources of ignition - Refrain from smoking. Do not eat, drink or smoke when using this product. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse.

#### **7.2 Conditions for safe storage, including any incompatibilities**

Only use containers that are approved specifically for the substance/product. Provide solvent-resistant and impermeable floor. Do not store together with oxidizing agents. Protect from heat/overheating. Keep container in a well-ventilated place. Keep container tightly closed.

#### **7.3. Specific end use(s)**

## Safety Data Sheet

Product is intended to be used in dental laboratories. All recommendation for safe use are intended for professional use of the product.

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

#### **8.1 Control parameters**

Council Directive 98/24/EC with all implementations and amendments  
 Slovenia: Official Gazette RS, No. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18, 78/19, 72/21

Substance
<b>Ethyl-2-cyanoacrylate</b>
CAS: 7085-85-0, EINECS/ELINCS: 230-391-5, EU-INDEX: 607-236-00-9, Reg-No.: 01-2119527766-29-XXXX
Short-term exposure (15-minute): 0,3 ppm, 1,5 mg/m <sup>3</sup>

#### **DNEL**

Substance
<b>Ethyl-2-cyanoacrylate, CAS: 7085-85-0</b>
Industrial, inhalative, Long-term - systemic effects: 9,25 mg/m <sup>3</sup> .
Industrial, inhalative, Long-term - local effects: 9,25 mg/m <sup>3</sup> .
general population, inhalative, Long-term - systemic effects: 9,25 mg/m <sup>3</sup> .
general population, inhalative, Long-term - local effects: 9,25 mg/m <sup>3</sup> .

#### **8.2 Exposure controls**

Personal protective equipment in accordance with Regulation (EU) 2016/425 and the List of harmonized standards for OVO-2018 / C 209/03.

##### *General safety precautions:*

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.

Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.

##### *Respiratory protection:*

Ensure adequate ventilation on workstation. Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter A (EN 14387).

##### *Hand protection:*

The details concerned are recommendations. Please contact the glove supplier for further information.

In full contact:

> 0,4 mm / Butyl rubber, >240 min (EN 374-1/-2/-3).

In splash contact:

> 0,4 mm/ Nitrile rubber, >120 min (EN 374-1/-2/-3).

## Safety Data Sheet

*Eye protection:*

Safety glasses. (EN 166:2001)

*Body protection:*

Light protective clothing.

*Control of environment protection*

Do not spill into inland water or sewage system. Avoid entering the soil.

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

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

<b>Physical state</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	pungent
<b>pH</b>	n.a.
<b>Melting point/freezing point</b>	n.a.
<b>Initial boiling point and boiling range</b>	150°C
<b>Flash point</b>	87°C
<b>Evaporation rate</b>	n.a.
<b>Flammability</b>	n.a.
<b>Explosive limits</b>	n.a.
<b>Vapor pressure</b>	n.a.
<b>Vapour density</b>	n.a.
<b>Density [g/ml]</b>	1,05
<b>Solubility</b>	insoluble
<b>Partition coefficient: n-octanol/water</b>	n.a.
<b>Auto-ignition temperature</b>	500°C
<b>Decomposition temperature</b>	n.a.
<b>Kinematic viscosity</b>	n.a.
<b>Explosive properties</b>	n.a.
<b>Oxidising properties</b>	n.a.
<b>Particle characteristics</b>	n.a.

#### **9.2 Other information**

No additional information relevant to safe use of the product.

## Safety Data Sheet

### **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

See section 10.3

#### **10.2 Chemical stability**

Stable under normal conditions (ambient temperature) and proper use.

#### **10.3 Possibility of hazardous reaction**

Reactions with strong oxidizing agents. Reactions with water. Reactions with amines. Reactions with alcohols. Reactions with alkalies (lyes).

#### **10.4 Conditions to avoid**

Strong heating

#### **10.5 Incompatible materials**

See section 7

#### **10.6 Hazardous decomposition products**

Irritant gases/vapours

### **SECTION 11: Toxicological information**

#### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

##### *General remarks:*

Cyanoacrylates bond skin and eyelids in seconds. In the case of large spills on the skin, superficial burns may occur - treat accordingly. There may be irritation and redness at the site of contact.

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

##### **Acute toxicity:**

#### **Important LD/LC50 values for classification**

##### **Product**

ATEmix, dermal	> 2000 mg/kg
ATEmix, oral	> 5000 mg/kg

#### **Important LD/LC50 values for classification**



## Safety Data Sheet

<b>Substance: Ethyl-2-cyanoacrylate, CAS: 7085-85-0</b>	
<b>Oral LD50</b>	> 5000 mg/kg (rat, OECD 401)
<b>Dermal LD50</b>	> 2000 mg/kg (rabbit, OECD 402)
<b>Important LD/LC50 values for classification</b>	
<b>Substance: 1,4-Dihydroxybenzene, CAS: 123-31-9</b>	
<b>Oral LD50</b>	375 mg/kg (rat)
<b>Dermal LD50</b>	2000 mg/kg (rabbit)
<p><b>Skin corrosion/irritation:</b>                      Toxicological data of complete product are not available.                      Irritant                      Calculation method</p> <p><b>Serious eye damage/irritation:</b>                      Toxicological data of complete product are not available.                      Irritant                      Calculation method</p> <p><b>Respiratory or skin sensitization:</b> Based on the available information, the classification criteria are not fulfilled.</p> <p><b>Germ cell mutagenicity:</b> Based on the available information, the classification criteria are not fulfilled. Does not contain a relevant substance that meets the classification criteria.</p> <p><b>Carcinogenicity:</b> Based on the available information, the classification criteria are not fulfilled. Does not contain a relevant substance that meets the classification criteria.</p> <p><b>Reproductive toxicity:</b> Based on the available information, the classification criteria are not fulfilled. Does not contain a relevant substance that meets the classification criteria.</p> <p><b>STOT-single exposure:</b>                      Toxicological data of complete product are not available. May cause respiratory irritation.                      Calculation method</p> <p><b>STOT-repeated exposure:</b> Based on the available information, the classification criteria are not fulfilled.</p> <p><b>Aspiration hazard:</b> Based on the available information, the classification criteria are not fulfilled.</p>	

## Safety Data Sheet

### **SECTION 12: Ecology information**

#### **12.1 Toxicity**

**Substance: 1,4-Dihydroxybenzene, CAS: 123-31-9**

<b>LC50</b>	638 µg/L (fish, 96 h)
<b>EC50</b>	33 – 330 µg/L (algae, 72 h)
<b>EC50</b>	61 – 134 µg/L (Invertebrates, 48 h)

#### **12.2 Persistence and degradability**

Not determined

#### **12.3 Bioaccumulative potential**

No evidence for bioaccumulation potential.

#### **12.4 Mobility in soil**

Cured product is immobile

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

The substance is not considered to be persistent, bioaccumulative or toxic. The substance is not considered to be very persistent and very bioaccumulative.

#### **12.6 Other adverse effects**

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment. Do not allow product to reach the drainage.

### **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

Directive 2008/98/EC, Official Gazette RS 37/15, 69/15

*Methods of disposal:* Dispose in accordance with Statute about handling with waste.

Dispose as hazardous waste.

080409\* waste adhesives and sealants containing organic solvents or other dangerous substances

*Empty packaging disposal:*

Uncontaminated packaging may be taken for recycling.


Packaging that cannot be cleaned should be disposed of as for product.

## Safety Data Sheet

Packaging that must be disposed should be completely empty. Packaging with the product dispose in accordance with Statue about waste handling (Ur.l. RS 84/98, 45/00 in 13/03).

*Category of empty packaging:* 15 01 10\* packaging containing residues of or contaminated by dangerous substances

### SECTION 14: Transport Information

	Land-Road/Railway (ADR/RID):	Inland waterways (ADNR):	IATA	Sea (IMDG):
14.1 UN number	Not applicable	Not applicable	3334	Not applicable
14.2 UN proper shipping name	Not applicable	Not applicable	Aviation regulated liquid, n.o.s. (Cyanoacrylates) [only for more then 0,5l] 	Not applicable
14.3 Transport hazard class(es)				
14.4 Packing group	Not applicable			
14.5 Environmental hazards	Not applicable			
14.6 Special precautions for user	No special precautions			
14.7 Maritime transport in bulk according to IMO instruments	Not applicable			
Not a dangerous product within the meaning of the transport regulations.				

### SECTION 15: Regulatory information

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

Product is classified in accordance with directive EC 1907/2006 and 1272/2008 and additional changes or national legislation Ur.l. RS 101/2002 and Ur.l.RS 16/2008.

#### 15.2 Chemical safety assessment

Chemical safety assessment has been carried out.

## Safety Data Sheet

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

#### *Revision:*

Version 08 issued on December 2022 in accordance with EC 1907/2006 (Commission Regulation (EU) 2015/830) and EC 1272/2008.

Revision in accordance to changes in COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### *Legend of abbreviations:*

ADR – European agreement concerning the international carriage of dangerous goods by road

CAS – Chemical Abstracts Service

CLP – Classification, Labeling and Packaging

CMR – Carcinogenic, Mutagenic or toxic for Reproduction

DNEL - Derived no-effect level

EC50: Half maximal effective concentration

EmS – Emergency Schedule

GHS – Globally Harmonised System of Classification and Labeling of Chemicals

IATA – International Air Transport Association

IUCLID – International Uniform Chemical Information Database

IMDG – International Maritime Dangerous Goods Code

LC50: Lethal concentration, 50%

LD50: Median lethal dose; the dose causing 50% lethality

MARPOL – International convention for the prevention of pollution from ships

NOEC - No-observed-effect concentration

NOAEL – No-observed-adverse-effect level

NTP- National Toxicology Program

OEL - Occupational exposure limit

OECD - Organisation for Economic Co-operation and Development

PBT – Persistent Bioaccumulative Toxic

PNEC: Predicted no-effect concentration

Ppm – parts per million

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

RTECS – The Registry of Toxic Effects of Chemical Substances

RID – Regulation concerning the international carriage of dangerous goods by rail

vPvB – very Persistent and very Bioaccumulative

H400 Very toxic to aquatic life.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H302 Harmful if swallowed.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

## Safety Data Sheet

*References:*

Safety data sheets of the substances for the product  
Directive EC 1907/2006 and 1272/2008 with all amendments and implementations  
Council Directive 98/24/EC with all implementations and amendments  
Official Gazette RS, No. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18, 78/19, 72/21;  
Directive 2008/98/EC with all amendments, Official Gazette RS 37/15, 69/15.  
Martindale: The Extra Pharmacopoeia, 13. edition  
European convention about international transport of hazardous material ADR  
- Dangerous Goods Regulations (DGR) for the air transport (IATA)  
International Maritime Dangerous Goods Code IMDG

*Disclaimer of expressed and implied warranties:*

The information contained in the safety data sheet have been translated from the manufacturer, revised in accordance with the Slovenian legislation. Guidelines for the safe use, handling, disposal, storage and transportation and cannot be used as a guarantee. The information relates only to the specific product and is not suitable for combining with other materials or for use in another process as described in the instructions.