

Product name: **Cyanacrylate glue**

Article No.: 55200

Print date: 27. January 2021

Revision date: 27.01.2021

I. Chemical Product and Company Identification

I.1 Product identifier: **Cyanacrylate glue**

Contains: Ethyl-Cyanoacrylate

I.2 Relevant identified uses of the substance or mixture and uses advised against
Intended use: Adhesive

I.3 Details of the supplier of the safety data sheet
Manufacturer / distributor identification

Company: HEBA- OTOPLASTIK Labortechnik u. Einrichtungs-
GmbH & Co. KG
Hauptstr. 42 D-63853 Mömlingen
Phone: +49 6022 / 681600 Fax: +49 6022 / 31663
E-Mail: Info@heba.de www.heba.de

I.4 Emergency telephone number:
Toxic emergency call Munich + 49 89 19240 (Toxicological department of the 2nd medical clinic)

2. Hazards identification

2.1 Classification of the substance or mixture
Classification according to EC regulation 1272/2008 (CLP)
Skin Irrit. 2; H315 Causes skin irritation. Eye Irrit. 2;
H319 Causes serious eye irritation. STOT SE 3;
H335 May cause respiratory irritation.

2.2 Label elements
Labelling (CLP)



Signal word: **Warning**

Hazard statements

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

Precautionary statements

P102 Keep out of reach of children.
P261 Avoid breathing vapors.
P302+P352 IF ON SKIN: Wash with plenty of water/soap
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.
P501 Dispose of contents/container to hazardous or special waste collection point.

Special labelling

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

Text for labelling:

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Contains Ethyl 2-cyanoacrylate.

2.3 Other hazards

No risks worthy of mention.

Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

3. Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119527766-29-xxxx EC No. 230-391-5 CAS 7085-85-0	Ethyl 2-cyanoacrylate	88 - 99 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335.
EC No. 204-617-8 CAS 123-31-9	Hydroquinone	< 0.1 %	Acute Tox. 4; H302. Eye Dam. 1; H318. Skin Sens. 1; H317. Muta. 2; H341. Carc. 2; H351. Aquatic Acute 1; H400 (M-factor = 10).

Full text of H and EUH statements: see section 16.

4. First aid measures

4.1 Description of first aid measures

General information:

Cyanacrylate - Danger - skin and eyelids will stick together in seconds.

In case of inhalation:

Move victim to fresh air, put at rest and loosen restrictive clothing. If breathing has stopped, give artificial respiration immediately. Seek medical attention.

Following skin contact:

Immediately clean with water and soap followed by thorough rinsing. If product comes into contact with lips, hold mouth open. Do not allow lips to contact one another. Take off immediately all contaminated clothing and wash it before reuse. Seek medical attention.

After eye contact:

Keep eye wide open. Subsequently seek the immediate attention of an ophthalmologist. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Do not attempt to pull apart bonded eyelid.

After swallowing:

Keep airway open. Seek medical attention

4.2. Most important symptoms and effects, both acute and delayed

In case of prolonged exposure: May cause sensitization by skin contact. Effects resulting from repeated or prolonged exposure: cough, shortage of breath, headache, nausea, vomiting, eye damage/irritation. In case of ingestion: May be harmful if swallowed. After contact with skin: Redness, pain. After eye contact: Redness, pain.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

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5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, extinguishing powder, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons: Full water jet

5.2 Special hazards arising from the substance or mixture:

Combustible. On contact with air, potentially explosive mixtures may develop. In case of strong heating/In case of fire may be liberated: Cyanides, nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

5.3 Advice for firefighters:

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Hazchem-Code: -Use fine water spray to cool endangered containers. You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Cyanacrylate - Danger - skin and eyelids will stick together in seconds.

Avoid contact with skin, eyes, and clothing.

Do not breathe vapour/aerosol. Provide adequate ventilation.

Wear appropriate protective equipment. Keep unprotected people away. Take off immediately all contaminated clothing and wash it before reuse.

6.2 Environmental precautions.

Do not allow to enter into ground-water, surface water or drains

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e. g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Possible alternatives: Mix with water: Polymerisation. Take up mechanically and send to waste disposal.

6.4. Reference to other sections

Refer additionally to section 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Do not breathe vapor/aerosol.

Wear appropriate protective equipment. Avoid contact with skin, eyes, and clothing. Take off immediately all contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Use only explosion-proof equipment.

Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place. Protect from moisture contamination.

Recommended storage temperature: 2 - 8 °C. Protect from frost, heat and sunlight.

Hints on joint storage:

Do not store together with strong oxidizing agents.

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7.3 Specific end use(s)
No information available

8. Exposure controls / personal protection

8.1 Control parameters
Occupational Exposure limit values:

CAS No.	Designation	Type	Limit value
7085-85-0	Ethyl 2-cyanoacrylate	Great Britain: WEL- STELIreland: 8 hours	1.5 mg/m ³ ; 0.3 ppm 0.2 ppm
123-31-9	Hydroquinone	Great Britain: WEL- TVAIreland: 8 hours	0.5 mg/m ³ 0.5 mg/m ³

DNEL/DMEL:

Information about Ethyl 2-cyanoacrylate:

DNEL workers, systemic, long-term, inhalative: 9.25 mg/m³

DNEL workers, systemic, short-term, inhalative: 9.25 mg/m³

DNEL workers, local, long-term, inhalative: 9.25 mg/m³

DNEL workers, local, short-term, inhalative: 9.25 mg/m³

DNEL consumers, systemic, long-term, inhalative: 9.25 mg/m³

DNEL consumers, systemic, short-term, inhalative: 9.25 mg/m³

DNEL consumers, local, long-term, inhalative: 9.25 mg/m³

DNEL consumers, local, short-term, inhalative: 9.25 mg/m³

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.
Use only explosion-proof equipment.

Personal protection equipment

Occupational exposure controls

Respiratory protection:

Respiratory protective device.

Use filter type AXBEK according to EN 14387.

Hand protection:

Protective gloves according to EN 374.

Glove material: nitrile rubber - Layer thickness: ≥ 0.1 mm

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection:

Tightly sealed goggles according to EN 166. Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Take off immediately all contaminated clothing and wash it before reuse. Avoid contact with the substance.

Wash hands before breaks and after work. When using do not eat, drink or smoke.

Have eye wash bottle or eye rinse ready at work place.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid
	Color: colorless
Odor:	Stinging
pH-Value:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	150 °C
Flash point/flash point range:	87 °C
Evaporation rate:	no data available
Flammability:	no data available
Explosive limits:	no data available
Vapor pressure:	no data available
Vapor density:	no data available
Density:	1,05 g/mL
Solubility:	Soluble in: acetone
Water solubility:	Insoluble
Partition coefficient: n-octanol/water	1.42 log P(o/w) (Ethyl 2-cyanoacrylate) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Auto-ignition temperature:	500 °C
Decomposition temperature:	no data available
Viscosity (kinematic):	no data available
Explosive properties:	no data available
Oxidising properties:	no data available

9.2 Other information

Molecular weight Additional information:

125.13 g/mol (Ethyl 2-cyanoacrylate). No data available

10. Stability and reactivity

10.1 Reactivity: Refer to subsection „Possibility of hazardous reactions“.

10.2 Chemical stability: Stable when applying the recommended regulations for storage and handling.
Further information on correct storage: refer to section 7.

10.3 Possibility of hazardous reactions: Contact with the following materials leads to a violent reaction:
Water, humidity - Polymerization along with heat production.

10.4 Conditions to avoid: Protect from moisture contamination. Avoid open flames. Protect from frost, heat and sunlight.

10.5 Incompatible materials: Strong acids, strong oxidizing agents, amines, alkalis, alcohol (danger of polymerization).

10.6 Hazardous decomposition products: Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition products: Cyanides, nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

Thermal decomposition: No data available.

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II. Toxicological information

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral):

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

ATEmix (calculated): > 5,000 mg/kg

Acute toxicity (dermal):

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

ATEmix (calculated): > 2,000 mg/kg

Acute toxicity (inhalative):

Lack of data.

Skin corrosion/irritation:

Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation:

Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract:

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

Skin sensitisation:

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

Germ cell mutagenicity/Genotoxicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

Effects on or via lactation:

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

Specific target organ toxicity (single exposure):

STOT SE 3; H335 = May cause respiratory irritation.

Specific target organ toxicity (repeated exposure):

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

Aspiration hazard:

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

Other information:

Information about Ethyl 2-cyanoacrylate:

LD50 Rat, oral: > 5,000 mg/kg (OECD 423)

LD50 Rabbit, male, dermal: > 2,000 mg/kg (OECD 402)

Information about Hydroquinone:

LD50 Rat, oral: 367 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 2,000 (OECD 402)

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Cyanacrylate - Danger - skin and eyelids will stick together in seconds.
Keep out of the reach of children.

Symptoms

In case of prolonged exposure: May cause sensitization by skin contact. Effects resulting from repeated or prolonged exposure: cough, shortage of breath, headache, nausea, vomiting, eye damage/irritation. In case of ingestion: May be harmful if swallowed.

After contact with skin: Redness, pain. After eye contact: Redness, pain.

12. Ecological Information

12.1 Toxicity

Further details: No data available.

12.2 Persistence and degradability

Further details: Product is biodegradable.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: 1.42 log P(o/w) (Ethyl 2-cyanoacrylate) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains

13. Disposal considerations

Product

Waste key number:

08 04 09* = Waste adhesives and sealants containing organic solvents or other dangerous substances

MFSU = manufacture, formulation, supply and use

* = Evidence for disposal must be provided.

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

Contaminated packaging

Recommendation:

Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled

14. Transport Information

14.1. UN number

ADR/RID, IMDG: Not applicable

IATA-DGR: UN 3334

14.2 UN proper shipping name

ADR/RID, IMDG: Not restricted

IATA-DGR: UN 3334, AVIATION REGULATED LIQUID, N.O.S. (Ethyl 2-cyanoacrylate)

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14.3 Transport hazard class(es)

ADR/RID, IMDG: Not applicable
IATA-DGR: Class 9

14.4 Packing group

ADR/RID, IMDG: Not applicable
IATA-DGR: III

14.5 Environment hazards

Marine pollutant: no

14.6 Special precautions for user

Air transport (IATA)
Hazard label: Miscellaneous
Excepted Quantity Code: EI
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Cargo Aircraft only: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Special provisions: A27
Emergency Response Guide-Code (ERG): 9A

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

15. Regulatory information

National regulations - Great Britain

Hazchem-Code: -
No data available

National regulations - EC member states

Volatile organic compounds (VOC): 2 % by weight = 20 g/L

Labelling of packaging with ≤ 125mL content



Signal word: Warning

Hazard statements:

H335 May cause respiratory irritation.

Precautionary Statements:

P102 Keep out of reach of children.

P261 Avoid breathing vapours.

P312 Call a POISON CENTER/doctor if you feel unwell.

P501 Dispose of contents/container to hazardous or special waste collection point.

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

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16. Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H302 = Harmful if swallowed. H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

H335 = May cause respiratory irritation.

H341 = Suspected of causing genetic defects.

H351 = Suspected of causing cancer.

H400 = Very toxic to aquatic life.

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

Abbreviations and acronyms:

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

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level DNEL: Derived no-effect level

EC: European Community

EN: European Standard EU: European Union

MFSU: Manufacture, formulation, supply and use

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

LD50: Lethal dose 50 %

log P(o/w): Partition coefficient: octanol/water

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

M-factor: Multiplication factor

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted no-effect concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

STOT SE: Specific target organ toxicity - single exposure UN: United Nations

vPvB: Very persistent and very bioaccumulative

Changes in section 8: DNEL Ethyl 2-cyanoacrylate

Department issuing data sheet

Contact person: see section 1: Department responsible for information
The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.