

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

1.1 Product identifier

Trade name: Superglue

This safety data sheet pertains to the following products:

243427 = Superglue

244313 = Superglue

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Adhesive
Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company name: Berner Produkten b.v.

Street/POB-No.: Vogelzankweg 175

Postal Code, city: 6374 AC Landgraaf
Netherlands

WWW: www.berner.nl

E-mail: info@berner.nl

Telephone: +31 45 53 39 133

Department responsible for information:

E-mail: Productsafety.Chemicals@berner-group.com

1.4 Emergency telephone number

Poisons information service:

National Poisons Information Service (Birmingham Unit): 844 892 0111

Transport:

CONSULTANK Lutz Harder GmbH (Contract Qualisys/Berner)

Telephone: +49 (178) 4337434 (from USA: 01149 178 4337434)

SECTION 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:	P261	Avoid breathing vapours/spray.
	P280	Wear protective gloves/eye protection/face protection.
	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.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Special labelling

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

Text for labelling: Contains: Ethyl 2-cyanoacrylate

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Adhesive based on cyanoacrylic acid ester.

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119527766-29-xxxx EC No. 230-391-5 CAS 7085-85-0	Ethyl 2-cyanoacrylate Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335. Specific concentration limits (SCL): STOT SE 3; H335: C ≥ 10 %	70 - 90 %
EC No. 204-617-8 CAS 123-31-9	Hydroquinone Acute Tox. 4; H302. Eye Dam. 1; H318. Skin Sens. 1; H317. Muta. 2; H341. Carc. 2; H351. Aquatic Acute 1; H400. M-factors: Aquatic Acute 1: M = 10.	< 0.1 %

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

SECTION 4: First aid measures**4.1 Description of first aid measures**

General information:	Cyanoacrylate - Danger - skin and eyelids will stick together in seconds. Take off contaminated clothing and wash it before reuse. If medical advice is needed, have product container or label at hand.
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. Do not peel solidified product off the skin. Immediately get medical attention.

After eye contact: Keep eye wide open. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Do not attempt to pull apart bonded eyelid. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Do not induce vomiting. Keep airway open. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation.

Causes serious eye irritation. May cause respiratory irritation.

May cause sensitisation especially in sensitive humans.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire. Danger of formation of toxic pyrolysis products.

Furthermore, there may develop: Cyanides, nitrogen oxides (NOx), 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: -

Do not inhale explosion and combustion gases. Use fine water spray to cool endangered containers. Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

Do not breathe vapour/aerosol. Avoid contact with the substance.

If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Keep unprotected people away.

Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

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

If necessary notify appropriate authorities.

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.

Prevent spread over a wide area (e.g. by containment or oil barriers). Never return spills in original containers for re-use.

Additional information:

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 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 vapour/aerosol. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place. Keep container dry.
Keep only in the original container. Protect from heat and direct sunlight.
Store containers in upright position. Protect from moisture contamination. Keep in a cool place.
Provide solvent resistant flooring.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.
Do not store together with alkalis, oxidizing agents or amines.

7.3 Specific end use(s)

No information available.

SECTION 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-STEL	1.5 mg/m ³ ; 0.3 ppm
123-31-9	Hydroquinone	Great Britain: WEL-TWA	0.5 mg/m ³

DNEL/DMEL:

Information about Ethyl 2-cyanoacrylate:
DNEL inhalative: 9.25 mg/m³

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection:

Respiratory protection must be worn whenever the WEL levels have been exceeded. In case of inadequate ventilation wear respiratory protection.
Recommendation: Use filter type A according to EN 14387.
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection:

Protective gloves according to EN 374.
Permanent contact: Glove material: Butyl caoutchouc (butyl rubber) (> 0.4 mm), Breakthrough time: > 240 min
During splash contact: Glove material: Nitrile rubber (> 0.4 mm), Breakthrough time: > 120 min
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to BS EN ISO 16321-1:2022.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Cyanacrylate - Danger - skin and eyelids will stick together in seconds.
Do not breathe vapour/aerosol. Do not get in eyes, on skin, or on clothing.
Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Work place should be equipped with a shower and an eye rinsing apparatus.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 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
Colour: colourless

Odour: Stinging

Odour threshold: No data available

pH: No data available

Melting point/freezing point: Not determined.

Initial boiling point and boiling range: 150 °C

Flash point/flash point range: 87 °C

Evaporation rate: No data available

Flammability: No data available

Explosion limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Density: at 20 °C: 1.05 g/mL

Water solubility: Insoluble. Reacts with water.

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity, kinematic: No data available

Explosive properties: No data available

Oxidizing characteristics: No

9.2 Other information

Ignition temperature: 500 °C

SECTION 10: Stability and reactivity**10.1 Reactivity**

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reacts with alkalis, strong oxidizing agents, amines, water and Alcohol.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Protect from direct sunlight. Protect from moisture contamination.

10.5 Incompatible materials

Alkalis, strong oxidizing agents, amines, water, Alcohol.

10.6 Hazardous decomposition products

Irritating gases/vapours
Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

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: Lack of data.

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: Lack of data.

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 401)

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

Information about Hydroquinone:

LD50, Rat, oral: 375 mg/kg

LD50, Rabbit, dermal: 2,000 mg/kg

Symptoms

May cause sensitisation especially in sensitive humans.

In case of ingestion: May be harmful if swallowed.

After contact with skin: Redness, pain.

General remarks

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about Hydroquinone:
Fish toxicity: LC50: 638 µg/L/96h
invertebrate toxicity: EC50: 61 - 134 µg/L/48h
Algae toxicity: EC50: 33 - 330 µg/L/72h

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 08 04 09* = Waste adhesives and sealants containing organic solvents or other dangerous substances
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Package

Waste key number: 15 01 10* = Packaging containing residues of or contaminated by dangerous substances
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.
Non-contaminated packages may be recycled.

SECTION 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. (Cyanacrylate)

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 Environmental hazards

Marine pollutant: no

14.6 Special precautions for user**Air transport (IATA)**

Hazard label: Miscellaneous
Excepted Quantity Code: E1
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

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - Great Britain**

Hazchem-Code: -
No data available

National regulations - EC member states

Further regulations, limitations and legal requirements:
Use restriction according to REACH annex XVII, no.: 3, 75

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 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:

- Acute Tox.: Acute toxicity
- 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
- Aquatic Acute: Hazardous to the aquatic environment - acute
- AS/NZS: Australian Standards/New Zealand Standards
- Carc.: Carcinogenicity
- 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
- EC50: Effective Concentration 50%
- EN: European Standard
- EQ: Excepted quantities
- Eye Dam.: Eye damage
- Eye Irrit.: Eye irritation
- IATA: International Air Transport Association
- IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
- IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IMDG Code: International Maritime Dangerous Goods Code
- LC50: Median lethal concentration
- LD50: Lethal dose 50%
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- M-factor: Multiplication factor
- Muta.: Mutagenicity
- OEL: Occupational Exposure Limit Value
- 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
- Skin Irrit.: Skin irritation
- Skin Sens.: Skin sensitisation
- STOT SE: Specific target organ toxicity - single exposure
- TLV: Threshold Limit Value
- TRGS: Technical Rules for Hazardous Substances
- UN: United Nations
- vPvB: Very persistent and very bioaccumulative
- WEL: Workplace Exposure Limit

Reason of change: Changes in section 1: Changes of product list

Date of first version: 25/11/2021

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.