

SUPER GLUE
Κόλλα Στιγμής – Fast-acting Adhesive

SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: SUPER GLUE

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

Relevant uses: Fast-acting Adhesive

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

Evochem S.A.
Tzaverdella Place
133 41 PHILI , ATTICA – GREECE
Phone.: 0030 210 5590460 , 0030 210
5590155 Fax: 0030 210 6254737 , 0030 210
5590244
info@evochem.gr; vmergoupis@evochem.gr;
sales@evochem.gr

1.4 Emergency telephone number: National Poisoning Center 210 7793777

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification of the product according to DSD (67/548/EC)

Xi IRRITANT

R 36/37/38 Irritating to eyes, respiratory system and skin



Classification of the product according to CLP (1272/2008/EC)

Eye irrit. 2

H319 Causes serious eye irritation

STO T SE 3

H335 May cause respiratory irritation

Skin irrit. 2

H315 Causes skin irritation

2.2 Label elements:

Label elements according to CLP (1272/2008/EC)

Hazard pictograms:



Signal word:

Warning

Hazard statements:

H315:

Causes serious eye irritation.

H319:

May cause respiratory irritation.

H335:

Causes skin irritation.

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SUPER GLUE
Κόλλα Στιγμής – Fast-acting Adhesive**SECTION 2: HAZARDS IDENTIFICATION****Precautionary statements:**

P280 Wear protective gloves/protective clothing/eye protection/ face protection
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P332+313 If skin irritation occurs: Get medical advice/attention
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing
P403+233 Store in a well-ventilated place. Keep container tightly closed statements
P501 Dispose of contents/container as hazardous or special waste statements

Special Precautionary statements:

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

SECTION 3: COMPOSITION/INFORMATION OF INGREDIENTS**3.1 Substance:**

Name of substance	CAS No.	EC No.	Index No.	Concentration	Classification (DSD/CLP)	Specific concentration limits
Ethyl-2-cyanoacrylate	7085-81-0	230-391-5	607-236-00-9	80 - 99 %	Xi; R36/37/38 Eye irrit. 2 ; H319 STOT SE 3 ; H335 Skin irrit. 2; H315	C > 10% : Xi; R36/37/38

3.2 Composition Comments:**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures:****General:**

Call a POISON CENTER or doctor/physician if you feel unwell

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If still feeling unwell, seek medical attention.

Skin:

IF ON SKIN: Wash with plenty of soap and water. 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.

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SECTION 4: FIRST AID MEASURES

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.
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. If skin irritation occurs: Get medical advice/attention

Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If the eye is bonded closed, release eyelashes with warm water by covering with wet pad.
Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive.
Keep eye covered until debonding is complete, usually within 1-3 days.
Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause an 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::

Gross contamination with the adhesive may generate enough heat to cause a burn.

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

Not determined

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing:

Extinguishing media:

Dry powder, foam, carbon dioxide, fine water spray

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture:

Trace amounts of toxic fumes may be released on incineration. Hazardous combustion products: oxides of carbon, oxides of nitrogen, irritating organic vapors.

5.3 Advice for firefighters :

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and suitable protective clothing .

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Wear protective gloves/protective clothing/eye protection/ face protection.
Avoid skin and eye contact. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.2 Environmental precautions:

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up :

Do not use clothes for mopping up.
Flood with water to complete polymerisation and scrape off the floor.
Cured material can be disposed of as non-hazardous waste.

6.4 Reference to other sections :

Safe handling: see section 7
Disposal: see section 13
Personal protective equipment: see section 8

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
Ventilation (low level) is recommended when using large volumes.
Use of dispensing equipment is recommended to minimise the risk of skin or eye contact. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

For optimum shelf life store in original containers under refrigerated conditions at 2°C to 8°C. Store locked up.

7.3 Specific end use(s):

Not applicable

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SECTION 8: FIRST AID MEASURES

8.1. Control parameters:

Exposure limit values:

Country	Type	Value
UK	STEL	0.3 ppm; 1.5 mg.m ⁻³ (15 min)
Ireland	OEL / TWA	0.2 ppm
Germany	MAK	No MAK value established
France	VME/VLE	No VME/VLE established

Derived DNEL(s) / DMEL(s):

Type	Details	Value	Basis
Worker - inhalation route	Systemic effect - Long term exposure	9.25 mg/m ³	irritation (respiratory tract)
Worker - inhalation route	Local effect - Long term exposure	9.25 mg/m ³	irritation (respiratory tract)
General population - inhalation route	Systemic effect - Long term exposure	9.25 mg/m ³	irritation (respiratory tract)
General population - inhalation route	Local effect - Long term exposure	9.25 mg/m ³	irritation (respiratory tract)

Derived PNEC(s):

Tests in aqueous media with ethyl-2-cyanoacrylate with the intent to determine effective concentrations or no effect concentrations cannot be performed due to technical reasons based on the chemical properties of the monomer.

8.2 Exposure controls:

Engineering measures:

Provide adequate ventilation in area of use. Do NOT use this product in an enclosed or poorly ventilated area. Local exhaust ventilation is normally required when handling or using this product to keep airborne powder below the nationally authorized limits. If ventilation alone cannot control exposure, respiratory protection must be used.

Respiratory equipment:

Ensure adequate ventilation

Hand protection:

In circumstances where there is a potential for prolonged or repeated skin contact, the use of polyvinyl chloride or nitrile rubber gauntlets or equivalent solvent resistant gloves is recommended. The use of chemical resistant gloves such as Nitrile is recommended. Polyethylene or polypropylene gloves are recommended when using large volumes. Do not use PVC, rubber, nylon or cotton gloves.

Eye protection:

Wear protective glasses

Body protection:

N/A

Hygiene measures:

Good industrial hygiene practices should be observed. Take off contaminated clothing and wash it before reuse. Wash hands thoroughly after handling

Environmental exposure controls:

N/A

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state: Liquid
Color: Transparent, colorless
Odor: Pungent
Odor threshold: N/D
pH: N/D
Melting point: -31°C
Boiling point: 214°C (at 1003mbar) 82.5°C (at 1003 mbar)
Flash point: N/D
Evaporation rate: Not flammable 480 °C
Flammability: N/A
Auto flammability:
Upper/ lower flammability or explosive limits:
Explosive properties: No explosive properties
Oxidizing properties: No oxidizing properties
Vapor pressure: <21 Pa
% Volatile by volume: N/D
Vapor density: N/D
Specific gravity: 1.043 g/cm³ at 20 °C
Solubility in water: <0,024mg/l
Other solvents: Recovery in acetone: 91,8%
Recovery in acetonitrile: 96,5%
Partition coefficient (n-octanol/water): LogP_{ow}0,776(calculated)
Decomposition temperature: N/D
Viscosity: 2,6 mPa at 20 °C

9.2 Other information: None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

N/D

10.2. Chemical stability:

Stable under normal conditions of storage and use

10.3. Possibility of hazardous reactions:

Polymerisation will occur in the presence of moisture and other basic materials.

10.4. Conditions to avoid:

Moisture, humidity, basic material

10.5. Incompatible materials:

Water, soil, amines, alkalis and alcohols

10.6. Hazardous decomposition products:

Oxides of carbon, Oxides of nitrogen

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity:

Oral: LD₅₀ (oral, rat) > 5000 mg/kg bw (OECD 401)

Dermal: LD₅₀ (dermal, rabbit) > 2000 mg/kg bw (OECD 402)

Inhalation: In dry atmosphere with < 50% humidity, vapors may irritate the eyes and respiratory system. Prolonged exposure to high concentrations of vapors may lead to chronic effects in sensitive individuals.

Skin:

Causes skin irritation

Corrosion/irritation

Serious eye damage/irritation:

Irritating to eyes. In a dry atmosphere (RH<50%) vapors may cause irritation and lachrymatory effect.

Respiratory or skin sensitization:

Due to polymerisation at the skin surface allergic reaction is not considered possible. The polymerized material is not able to penetrate into the epidermis.

Germ cell mutagenicity:

Because of the reduced exposure to monomer and the reported negative test result in various mutagenicity tests, ethyl-2-cyanoacrylate cannot be classified as mutagen.

Carcinogenicity:

Not carcinogenic

Reproductive toxicity:

Non toxic by reproduction

STOT-single exposure:

May cause irritation for skin, eyes and respiratory system

STOT-repeated exposure:

Ethyl-2-cyanoacrylate is not toxic by repeated absorption exposure

11.2 Other Information:

None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No data available

12.2. Persistence and degradability:

Not applicable (the test compound would polymerize with contact of water or the moisture of the soil immediately)

12.3. Bioaccumulative potential:

Not applicable (in presence of moisture ethyl-2-cyanoacrylate polymerises within seconds)

12.4. Mobility in soil:

Not applicable (the test compound would polymerize with contact of water or the moisture of the soil immediately)

12.5. Results of PBT and vPvB assessment:

The PBT and vPvB criteria do not apply to ethyl-2-cyanoacrylate

12.6. Other adverse effects:

N/D

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Product disposal:

Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions. Dispose of in accordance with local and national regulations. Polymerise by adding slowly to water (10:1). 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. Disposal must be made according to official regulations

13.1. Waste code numbers:

080409 waste adhesives and sealants containing organic solvents and other dangerous solvents

SECTION 14: TRANSPORT INFORMATION

	Overland transport (ADR/RID)	River transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN Number	Not regulated			3334
14.2. UN proper shipping name	Not regulated			Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)
14.3. Transport hazard classes	Not regulated			9
14.4. Packing group	Not regulated			Packaging instructions (passenger): 906 Packaging instructions (cargo): 906
14.5. Environmental hazards	-		no	-
14.6. Classification	Not regulated			3334 Aviation regulated liquid, n.o.s. (Cyanoacrylate ester), 9
14.9. Limited amount (LQ)	Not regulated			
14.10. Additional information	Not determined			Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.

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SECTION 14: TRANSPORT INFORMATION

14.1 Special precautions for user

Not determined

14.2 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not determined

SECTION 15: REGULATORY INFORMATION

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

N/D

15.2. Chemical Safety Assessment:

A chemical safety assessment has been performed

SECTION 16: OTHER INFORMATION

16.1. Indication on the revision

SDS revised on the 07th October 2013: inclusion of CLP and DSD classification according to CLP regulation (1272/2008/EC) and addition of all fields as required by regulations 1907/2006/EC and 453/2010/EC.

16.2. Abbreviations and acronyms

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on inland waterways.
ADR/RID: European Agreement, concerning the International Carriage of Dangerous Goods by Road/ Regulations concerning the international carriage of dangerous goods by rail.
ACGIH: American Conference of Governmental Industrial Hygienists
CAS Number: Chemical Abstract Service Number
CLP: Classification, Labelling and Packaging
DNEL: Derived No Effect Level
DPD: Dangerous Preparation Directive
DSD: Dangerous Substance Directive
EC Number: European Commission Number
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
IATA: International Air Transport Associations
IMDG: International Maritime Dangerous Goods code
NIOSH: National Institute of Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bio accumulative, Toxic
UN Number: United Nations Number
UVCB: Substances of Unknown or Variable composition, Complex reaction products or Biological materials
TWA: Time-Weighted Average VOC: Volatile organic compounds
VPvB: very Persistent and very Bio accumulative WEL: Workplace Exposure Limit (UK HSE EH40)

16.3. Key literature references and sources for data

The present data in this SDS are based on the data present in the registration dossier of Ethyl Cyanoacrylate.

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SECTION 16: OTHER INFORMATION

16.4 Classification of mixtures and applied evaluation method

Not applicable

16.5 Wording of the R- and H- phrases (which are not written in full under section 2 to 15)

Risk phrases: -

H statements: -

S phrases:

S23 Do not breath vapour

S24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16.6 Training advice

Unavailable

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.