

Super glue®

Safety data sheet

Prepared in accordance with Regulation (EC) No. 1907/2006 (REACH)

Version 1.1 | Created: 24 June 2015 | Revised: 26 June 2015

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

Product name and description	Cyanoacrylate adhesive
Trade name/Brand	Super glue®
Synonym(s)	None
REACH Number	Not applicable, mixture
CAS Number	Not applicable, mixture
EC Number	Not applicable, mixture
Recommended use	This product is intended for use as a household adhesive.
Uses advised against	None
Supplier of the product and of this safety data sheet	National Centre for Biotechnology Education (NCBE) University of Reading 2 Earley Gate Whiteknights READING RG6 6AU United Kingdom T: 0118 9873743 F: 0118 9750140 E: NCBE@reading.ac.uk W: www.ncbe.reading.ac.uk
Manufacturer of the product	The product is obtained from a variety of suppliers.
Emergency telephone number	0118 9873743 (NCBE, University of Reading. 08.30–17.00 weekdays only)

SECTION 2. Hazards identification

Classification according to Regulation (EC) No. 1272/2008 [CLP]	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H317	May cause an allergic skin reaction.
	H335	May cause respiratory irritation.
	EUH202	Contains cyanoacrylates.

Label elements

WARNING

EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Note: The following precautionary statements could be included on the label, but they are not required as the volume of the product is less than 125 mL.

P264	Wash skin and hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection.
P261	Avoid breathing vapours.
P271	Use only outdoors or in a well-ventilated area.
P233	Keep container tightly closed.
P260	Do not breathe vapour.
P210	Keep away from heat/open flames/hot surfaces. No smoking.
P370 + P378	In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P313	Get medical advice/attention.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P501	Dispose of contents/container in accordance with local regulations.



Other hazards

None found.

SECTION 3. Composition/Information on the ingredients

Name of component (Synonyms) [CLP index number]	Weight (%) [*]	EC (EINECS) number	CAS number	REACH registration number	Classification under Regulation (EC) No 1272/2008 [CLP]
Ethyl 2-cyanoacrylate [607-236-00-9]	85-100	230-391-5	7085-85-0	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Contains cyanoacrylates (EUH202)
Poly(methyl methacrylate)	10-30	-	9011-14-7	-	Not classified

^{*} Approximate values obtained from similar products.

For the full text of the safety classifications (H-statements), refer to Section 16.

SECTION 4. First aid measures

General information	Take great care when using this glue; it bonds skin in seconds. It may also cause eye and respiratory irritation.
Inhalation	Move the casualty to fresh air. Prolonged or repeated exposure may cause allergic reactions or asthma-like symptoms in sensitive individuals. If the victim has stopped breathing artificial respiration and/or oxygen may be necessary. If this happens, call a doctor immediately.
Skin contact	<p>Bonds skin in seconds! <i>Do not</i> pull bonded skin apart. Soak with warm soapy water then gently peel apart using a blunt instrument. If the lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in the mouth. Peel or roll the lips apart. <i>Do not</i> pull lips apart with direct opposing force. Cyanoacrylates generate heat on solidification. In rare circumstances, a large drop will burn the skin. If this happens, seek medical attention.</p> <p>May cause skin irritation. Cyanoacrylates have been reported to cause an allergic reaction but due to rapid polymerization (solidification) at the skin surface, an allergic reaction is rare. Cured (solidified) adhesive does not present a health hazard even if bonded to the skin. Wash affected area with soap and water. Seek medical attention if irritation occurs.</p>
Eye contact	Rinse eye immediately with running water (preferably warm) for at least 15 minutes. Cyanoacrylate will bond to the eye protein and cause excessive tear production. This will help to debond the adhesive. Keep the eye covered until debonding is complete (usually within 1–3 days). The eyelids may bond. If the eyelids are bonded closed, release eyelashes by covering with a pad soaked with warm water. Do not force the eye open. Seek medical advice, especially if there are solid particles of polymerised glue trapped behind the eyelid, as these may cause abrasive damage.
Ingestion	Ensure that the breathing passages are not obstructed. The glue rapidly solidifies and bonds to the mouth, making the glue almost impossible to swallow. Saliva will lift the adhesive in several hours. Avoid swallowing the solid adhesive after detachment. Not a toxic product and not expected to be harmful by ingestion.
Self-protection of the first aider	Ensure that you do not come into contact with the unpolymerised glue or breathe excessive amounts of vapour.
Most important symptoms and effects, both acute and delayed	See above. Avoid exposure to vapour concentration in confined areas. Frequent or prolonged exposure may irritate the skin and cause a rash (dermatitis).
Indication of any immediate medical attention and special treatment	If in contact with the eyes, flush with warm water immediately. Seek medical attention.
Advice to doctor	Treat symptomatically.

SECTION 5. Firefighting measures

The product is not flammable. Combustible liquid and vapour. The product is polymerised to a solid by water.

Extinguishing media

Use foam, carbon dioxide or dry chemical.

Special hazards arising from the substance or mixture

None.

Advice for firefighters

Trace amounts of toxic or irritating fumes may be released in a fire. The use of self-contained breathing apparatus is therefore recommended if the quantity of the substance involved warrants it.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

When necessary (e.g., when there is a large spill) use nitrile gloves to prevent skin contact. Do not use PVC, nylon or cotton materials. Avoid breathing vapour.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent the product from entering drains.

Methods and material for containment and cleaning up

Do not use a cloth for mopping up. The product polymerises on contact with water: flood the area with water to complete polymerization and scrape the solid off the surface it has adhered to.

Reference to other sections

See Section 13 for disposal instructions.

SECTION 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Wash hands thoroughly after handling the product. Avoid contact with fabric and cellulose (e.g., cotton wool, paper, cotton fabric). Contact with these materials may cause rapid polymerization which can generate heat, smoke and strong irritating vapours and can cause burns.

Conditions for safe storage, including any incompatibilities

Store in the original packaging, tightly closed. Store in a cool (<24 °C) dry, well-ventilated location, away from sources of ignition. Storage in a fridge at 3–5 °C will prolong the life of the product. Keep out of reach of children.

Directions for use (as an adhesive)

1. The surfaces to be joined must be smooth, clean and dry.
2. Take off the cap and cut the tip of the nozzle. Be careful not to apply pressure to the tube when cutting the nozzle tip.
3. Apply glue to one surface (about 1 drop per 4 cm²).
4. Place the items to be joined together immediately and hold in place if necessary until the glue sets.

To keep the tip of the nozzle clear, ensure that the cap is replaced quickly and securely after use. Glue can be removed using an anti-bonding substance (not supplied).

SECTION 8. Exposure controls/personal protection

Control parameters

Exposure limits

Components with workspace control parameters

Component	CAS Number	Workplace exposure limit	Legal basis
Ethyl 2-cyanoacrylate	7085-85-0	Short-term exposure limit (15 minute reference period)	0.3 ppm 1.3 mg/m ³ UK. EH40 WEL

Biological limit values	No information available.
Derived no effect level	No information available.
Predicated no effect level	No information available.

Exposure controls

Select personal protective equipment appropriate for the operations taking place. For example it may be sensible to wear eye protection and protective gloves when handling the glue. Avoid contact with eyes and skin. Handle in accordance with good laboratory hygiene and safety practice. Wash hands before breaks and after handling the mixture.

SECTION 9. Physical and chemical properties

Appearance	Clear, colourless.
Physical state	Gel.
Odour	Sharp, irritating.
Odour threshold	1 ppm.
pH	Not applicable.
Melting point / Range	No data available.
Boiling point / Range	> 149 °C @ 760 mm Hg.
Flash point	86 °C to 93.4 °C (TAG).
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable as the mixture is a liquid.
Ignition temperature	> 250 °C.
Explosion limits	No data available.
Vapour pressure	< 0.2 mm Hg.
Vapour density	No data available.
Density @ 20 °C	1.06 g/ml.
Relative density	Not applicable as the mixture is a liquid.
Solubility in water	Slight. Polymerises in presence of water, so practically insoluble.
Solubility in other solvents	No data available.
Partition coefficient: n-octanol/water	No data available.
Autoignition temperature	485 °C.
Decomposition temperature	No data available.
Viscosity	25 to 50 centipoise @ 22 °C.
Explosive properties	No data available.
Oxidising properties	No data available.

Other information

No additional information relevant to the safe use of the substance.

SECTION 10. Stability and reactivity

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
Conditions to avoid	Heat, flames. Temperatures above 80 °C.
Incompatible materials	Water, amines, alkalis and alcohols, cellulose (e.g., cotton or paper).
Hazardous decomposition products	Trace amounts of toxic or irritating fumes may be released in a fire.

SECTION 11. Toxicological information

Acute toxicity	LD50 Oral: > 5 000 mg/kg (Rat, estimated) LD50 Dermal: > 2 000 mg/kg (Rabbit, estimated)
	Skin corrosion/irritation: Mild skin irritation 24 hours (Rabbit) Serious eye damage/eye irritation: Irritating to eyes 72 hours (Rabbit)
Chronic toxicity	No information available.
Additional toxicological information	No information available.
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Sensitisation	Possible skin sensitiser.
Mutagenic effects	No information available.
Reproductive effects	No information available.
Developmental effects	No information available.
Target organs	No information available.
Endocrine disruptor information	No information available.

SECTION 12. Ecological information

Toxicity	No information available.
Persistence and degradability	No information available.
Bioaccumulative potential	No information available.
Mobility in soil	No information available.
Additional ecological information	No information available.
Results of PBT and vPVB assessment	Not applicable.
Other adverse effects	None known.

SECTION 13. Disposal considerations

Waste from residues/unused product	Cured (solid) glue can be disposed of as non-hazardous waste.
Contaminated packaging	Dispose of in normal waste according to local regulations.

SECTION 14. Transport information

UN number

ADR/RID: Not applicable.
IMDG: Not applicable.
IATA: UN3334.

UN proper shipping name

ADR/RID: Unrestricted.
IDMG: Unrestricted.
IATA: Aviation regulated liquids N.O.S. (Cyanoacrylate ester). Not more than 500 ml is unrestricted.

Transport hazard class(es)

ADR/RID: Not applicable.
IDMG: Not applicable.
IATA: 9

Packaging group

ADR/RID: Not applicable.
IDMG: Not applicable.
IATA: III

Environmental hazards

ADR/RID: None
IDMG: None
IATA: None

Conditions for safe storage

Keep the tubes of glue closed tightly. Store in a dry, cool and well-ventilated place.

SECTION 15. Regulatory information

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

National regulations

No data available.

Chemical Safety Assessment

A chemical safety assessment was not carried out.

SECTION 16. Other information

Full text of GHS hazard statements

EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Revised on 26 June 2015 to add EU-specific hazard statement about cyanoacrylates (EUH202).

The information given in this Safety Data Sheet is based on the present state of our knowledge.

This Safety Data Sheet has been compiled and is solely intended for this product.

END OF SAFETY DATA SHEET