

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.03.2013

Revision: 07.03.2013

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

- **Product identifier**
- **Trade name:** Super Glue Vapour (Ethyl Cyano-acrylate)
- **Article number:** 50-5500-05
- **CAS Number:**
7085-85-0
- **EC number:**
230-391-5
- **Index number:**
607-236-00-9
- **Registration number** 01-2119527766-29
- **Relevant identified uses of the substance or mixture and uses advised against**
Adhesive Products; construction.
- **Sector of Use**
 - SU0 Other
 - SU4 Manufacture of food products
 - SU5 Manufacture of textiles, leather, fur
 - SU6a Manufacture of wood and wood products
 - SU6b Manufacture of pulp, paper and paper products
 - SU7 Printing and reproduction of recorded media
 - SU11 Manufacture of rubber products
 - SU12 Manufacture of plastics products, including compounding and conversion
 - SU13 Manufacture of other non-metallic mineral products, e.g. plasters, cement
 - SU15 Manufacture of fabricated metal products, except machinery and equipment
 - SU16 Manufacture of computer, electronic and optical products, electrical equipment
 - SU17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
 - SU18 Manufacture of furniture
 - SU19 Building and construction work
 - SU20 Health services
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC1 Adhesives, sealants
- **Process category**
 - PROC1 Use in closed process, no likelihood of exposure
 - PROC2 Use in closed, continuous process with occasional controlled exposure
 - PROC3 Use in closed batch process (synthesis or formulation)
 - PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises
 - PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
 - PROC7 Industrial spraying
 - PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
 - PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 - PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
 - PROC10 Roller application or brushing
 - PROC13 Treatment of articles by dipping and pouring
 - PROC14 Production of preparations or articles by tableting, compression, extrusion, pelletisation
- **Environmental release category**
 - ERC1 Manufacture of substances
 - ERC2 Formulation of preparations
 - ERC5 Industrial use resulting in inclusion into or onto a matrix
 - ERC8a Wide dispersive indoor use of processing aids in open systems
 - ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix
 - ERC8e Wide dispersive outdoor use of reactive substances in open systems
- **Application of the substance / the preparation** Laboratory product
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Severn Biotech Ltd.
Unit 2,
Park Lane,

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Kidderminster,
Worcestershire.
DY11 6TJ
UK
Tel: 0044 1562 825286
Fax: 0044 1562 825284
email: info@severnbiotech.com

- **Further information obtainable from:** Product safety department.
- **Emergency telephone number:** Tel: 0044 1562 825286 (not 24 hours)

2 Hazards identification

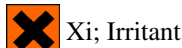
- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2 H319 Causes serious eye irritation.
- STOT SE 3 H335 May cause respiratory irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

- R36/37/38: Irritating to eyes, respiratory system and skin.
- **Information concerning particular hazards for human and environment:** Not applicable.

- **Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms** GHS07

- **Signal word** Warning

- **Hazard statements**

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

- **Precautionary statements**

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P260 Do not breathe mist/vapours/spray.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P315 Get immediate medical advice/attention.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Substances

- **CAS No. Description**

7085-85-0 ethyl 2-cyanoacrylate

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- **Identification number(s)**
- **EC number:** 230-391-5
- **Index number:** 607-236-00-9

4 First aid measures

- **Description of first aid measures**

- **General information:**

Seek medical treatment.

Immediately remove any clothing soiled by the product.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

CONTACT WITH SKIN:

Soak the bonded surface in warm soapy water or in a warm 1% solution of sodium bicarbonate. Peel or roll the surfaces apart gently with the aid of a blunt edge e.g. a teaspoon handle or spatula. Do not try to pull surface apart with a direct opposing action. Remove residual adhesive from the skin with plenty of soap and water.

CONTACT WITH LIPS:

If lips are accidentally stuck together apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart gently. Do not try to pull the lips apart with direct opposing action.

BURNS:

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.

- **After eye contact:**

DO NOT DELAY!

In the event of the eyelids being bonded, wash thoroughly and gently with warm water and apply a gauze patch over the eye. Do not force the eye open. Seek medical attention.

Cyanoacrylate will bond to the eye protein and will cause periods of weeping which will help to debond the adhesive. The eye will open without any further action in 1-3 days even if gross contamination has occurred. Double vision may be experienced during this period. There should be no residual damage to the eye.

- **After swallowing:**

DO NOT DELAY!

Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. In the unlikely event of adhesive entering the mouth it will solidify on contact with the moisture in the mouth bonding directly on the surfaces in the mouth. Saliva will gradually debond the adhesive 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 does not swallow it when it detaches.

- **Information for doctor:** Treat symptomatically and supportively.

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
Combustible. Above 75 °C explosive vapour/air mixtures may be formed.
- **Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Keep ignition sources away - no smoking.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Do not allow to penetrate the ground/soil.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Do not use cloths for mopping up. Flood with water to complete polymerisation and scrape off the floor.
Cured material can be disposed of as non-hazardous waste.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Avoid direct contact (skin contact, ingestion and/or inhalation of fume/mist/dust) with the product.
Welding and other hot work operations in the work area must only be permitted under supervision.
Ventilation (low level) is recommended when using large volumes.
Use of dispensing equipment is recommended to minimise the risk of skin or eye contact.

Above 75 °C use a closed system, ventilation and explosion-proof electrical equipment.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

7085-85-0 ethyl 2-cyanoacrylate

WEL Short-term value: 1.5 mg/m³, 0.3 ppm

· **DNELs**

Workers - Hazard via inhalation route

Systemic effects

Long term exposure Hazard assessment conclusion

- DNEL (Derived No Effect Level): 9.25 mg/m³

Local effects

Long term exposure Hazard assessment conclusion

- DNEL (Derived No Effect Level): 9.25 mg/m³

General Population - Hazard via inhalation route

Systemic effects

Long term exposure Hazard assessment conclusion

- DNEL (Derived No Effect Level): 9.25 mg/m³

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

Select PPE appropriate for the operations taking place taking into account the product properties.

· **General protective and hygienic measures:**

Take note of assigned Workplace Exposure Limits.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Do not eat, drink, smoke or sniff while working.

A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Polyvinyl chloride or nitrile rubber recommended.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

· Body protection: Impervious protective clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid

Colour: Clear

· Odour: Pungent

· Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: -31 °C

Boiling point/Boiling range: 214 °C

· Flash point: 82.5 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 480 °C

· Decomposition temperature: Not determined.

· Self-igniting: Not determined.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapour pressure: Not determined.

· Density at 20 °C: 1.04 g/cm³

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with

water at 20 °C: 0.024 mg/l

· Partition coefficient (n-octanol/water): 0.77 log POW

· Viscosity:

Dynamic at 20 °C: 2.6 mPas

Kinematic: Not determined.

· Other information

No further relevant information available.

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10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
The substance rapidly polymerises.
Decomposes on heating and on burning. This produces toxic and irritating fumes and gases including nitrogen oxides and cyanides.
- **Possibility of hazardous reactions**
Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
Strong oxidising agents.
Water, amines, alkalis and alcohols.
- **Hazardous decomposition products:**
Hydrogen cyanide (prussic acid)
Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
- | · LD/LC50 values relevant for classification: | | |
|--|------|----------------------|
| Oral | LD50 | >5000 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rabbit) |
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
 - **Sensitization:** No sensitizing effects known.
 - **Subacute to chronic toxicity:**
Effects of long-term or repeated exposure: Repeated or prolonged contact may cause skin sensitization.
 - **Additional toxicological information:**
Routes of exposure: The substance can be absorbed into the body by inhalation of its vapour.

Effects of short-term exposure: The substance is severely irritating to the eyes and skin.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** Inherently biodegradable
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** Product is not expected to bioaccumulate.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

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.

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.

- **European waste catalogue**

Waste code (EWC): 08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances.

- **Uncleaned packaging:**

- **Recommendation:**

Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop flammable vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**

- **ADR, ADN, IMDG**

Void

- **IATA**

3334

- **UN proper shipping name**

Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

- **ADR, ADN, IMDG, IATA**

Void

- **Transport hazard class(es)**

- **ADR, ADN, IMDG**

- **Class**

Void

- **IATA**



- **Class**

9 Miscellaneous dangerous substances and articles.

- **Label**

9

- **Packing group**

III

- **ADR, IMDG, IATA**

Void

- **Environmental hazards:**

- **Marine pollutant:**

No

- **Special precautions for user**

Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

- **Transport/Additional information:**

Primary packs containing less than 500ml are unregulated by air transport and may be shipped unrestricted.

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· UN "Model Regulation":

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15 Regulatory information

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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