

## Material Safety Data Sheet

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### *Section 1 - Identification of substance*

- **Product Details:** Cyanoacrylate adhesive
- **Trade Name:** super glue
- **Article Number:** AY-L12
- **Application of The Substance / The Preparation:** Adhesive
- **Manufacturer / Supplier:** Taizhou Aiyon Adhesive Co.,Ltd.
- **Information Department:** Laboratory
- **Emergency Information:**

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### *Section 2 - Compositon/Data on components*


- **Chemical Charaterization:**

The main composition of the adhesive is ethyl cyanoacrylate. Contains no any solvents, low toxicity, mild odor and non-flammable.

- **Chemical Charaterization:**

Cyanoacrylate adhesives are instant bonding, almost single component adhesives, that bond almost all close-fitting smooth surface in seconds.

**Dangerous Component:**

Ingredients	CAS No.	wt%
Ethyl cyanoacrylate  Xi	7085-85-0	88.7-89.3
Poly(methyl methacrylate)	9011-14-7	10.6-10.8

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### *Section 3 - Hazards Identification*

- **Hazard Description:**



Xi Irritant

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#### *Section 4 - First aid measures*

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- **Eyes:** Flush well with water for at least 15 minutes & Seek medical attention immediately.
- **Skin:** Soak in warm soapy water or apply acetone or polish remover.
- **Inhalation:** Move quickly to open area for fresh air.

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#### *Section 5 - Fire Fighting Measures*

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- **General Information:**  
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
- **Extinguishing Media:**  
Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

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#### *Section 6 - Accidental Release Measures*

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- **Spill Release Procedures:**  
Flood with water to polymerize. Soak up with an inert absorbent.
- **Recommend Methods of Disposal:**  
Incinerate following EPA and local regulations.

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#### *Section 7 - Handling and Storage*

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- **Storage:**  
Store at dry or below 23°C to maximize shelf life.
- **Spill Release Procedures:**  
Avoid contact with skin and eyes. Avoid breathing vapors.

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#### *Section 8 - Exposure Controls & Personal Protection*

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- **Eyes:**  
Safety glasses or goggles.
- **Skin:**  
Polyethylene gloves recommended. Don't use cotton gloves.
- **Ventilation:**  
Positive down-draft exhaust ventilation should be provide to maintain vapor concentration below TLV.

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### *Section 9 - Physical and Chemical Properties*

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|-----------------------------------|---------------------------------|
| • <b>Physical State:</b>          | Clear liquid                    |
| • <b>Appearance:</b>              | Transparent                     |
| • <b>Odor:</b>                    | Sharp, irritation               |
| • <b>pH:</b>                      | Not available                   |
| • <b>Vapor Pressure:</b>          | Less than 0.2 mmHg@75°F         |
| • <b>Viscosity:</b>               | 100cps±10% @ 25°C               |
| • <b>Boiling Point:</b>           | More than 54-56°C at 2.6-3 mmHg |
| • <b>Flash Point:</b>             | 160-200°F                       |
| • <b>Solubility in Water:</b>     | Polymerize in water             |
| • <b>Specific Gravity:</b>        | 1.05 @ 75°F                     |
| • <b>Evaporation Rate:</b>        | Not available                   |
| • <b>Explosion Limits, lower:</b> | Not available                   |
| • <b>Explosion Limits, upper:</b> | Not available                   |

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### *Section 10 - Stability & Reactivity Data*

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- **Chemical Stability:** Stable under normal temperatures and pressures.
- **Conditions to Avoid:** Avoid storage in contact with or near heat or sunlight.
- **Hazardous Polymerization:** Will not occur.
- **Hazardous Decomposition Products:** May form toxic materials. Carbon dioxide, carbon monoxide, and various hydrocarbons.
- **Incompatibilities with Other Materials:** Polymerized by contact with water, alcohols, amines, alkalis.

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### *Section 11 - Toxicological Information*

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- **Toxicity:**

Bonds skin rapidly and strongly, skin contact it may cause burns.

Oral	LD50	more than 5000mg/kg
Dermal	LD50	more than 2000mg/kg
- **Primary Routes of Entry:**

Not available.
- **Signs and Symptoms of Exposure:**

Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeat exposure to vapor above the established limits may cause allergic reactions with asthma-like symptoms in sensitive individuals.

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### *Section 12 - Ecological Information*

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- **Ecological Information:**

No data available.

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### *Section 13 - Disposal Considerations*

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- **Waste Disposal Methods:**

Dispose of in a manner consistent with federal, state, and local regulations.

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### Section 14 - Transport Information

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	<i>IATA</i>	<i>IMO</i>	<i>RID/ADR</i>
<i>Shipping Name:</i>	Unrestricted	Unrestricted	Unrestricted
<i>Hazard Class:</i>	Unrestricted 9(more than one pint)	Unrestricted 9(more than one pint)	Unrestricted 3(more than 450 liter)
<i>UN Number:</i>	None 3334(more than one pint)	None 3334(more than one pint)	None

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### Section 15 - Regulatory Information

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- **European/International Regulations**

Hazard Symbols: *Xi*

Risk Phrases: *R36/37/38* Irritating to eyes, respiratory system and skin.

Safety Phrases: *S26* In case of contact with eyes, flush immediately with plenty of water and seek medical advice.

*S28.2* After contact skin, wash immediately with plenty of soap and water.

*S37* Wear suitable gloves.

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### Section 16 - Other Information

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- **For Use:**

*Eye Irritant, Bonds Skin in Seconds:*

In case of eye contact, the eye should be copiously flushed with water and medical aid sought immediately, when skin contact occurs, the adhesive should be removed by soaking in warm, soapy water or by treatment with solvents such as acetone or nail polish remover.

Do not use rubber or cloth gloves. Rubber gloves will bond when brought in contact with the adhesive and porous cotton gloves will absorb the adhesive then bond the gloves to the skin, and release a lot of chemical reaction heat to cause serious burns.

When using it in large quantity or over a long period of time, be careful to ensure adequate ventilation of working environment.

- **For Storage:**

Keep away from reach of children.

Keep away from direct sunlight.

Store in cool and dry place.