

## Material Safety Data Sheet

**Version:** English

**Product Name:** Ethyl cyanoacrylate adhesive

**Validity Period:** 5 Years

**First Revision Date:** 2026-01-01

| 1. Identification of the product and company |                                                                                                                                                                                                                                                                                 |                                                                                                                        |                              |
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| Product Name                                 | Super glue 405 Aster KL-405 (part a – glue)                                                                                                                                                                                                                                     |                                                                                                                        |                              |
| Company Name                                 | LINYI JOINT NATURE CHEMICAL CO., LTD.                                                                                                                                                                                                                                           |                                                                                                                        |                              |
| Address                                      | MIDDLE OF №2 GONGYE ROAD, LANSHAN INDUSTRIAL PARK, LANSHAN DISTRICT, LINYI, SHANDONG, PRC, 276015, CHINA.                                                                                                                                                                       |                                                                                                                        |                              |
| Fax                                          |                                                                                                                                                                                                                                                                                 | PC                                                                                                                     | 261108                       |
| Emergency Telephone                          | 13562965767                                                                                                                                                                                                                                                                     | MSDS No.                                                                                                               | DEKEL-MSDS-01                |
| Recommended Use and Restricted               |                                                                                                                                                                                                                                                                                 | Manufacturing instant adhesive                                                                                         |                              |
| 2. Hazards identification                    |                                                                                                                                                                                                                                                                                 |                                                                                                                        |                              |
| Hazard Class                                 |                                                                                                                                                                                                                                                                                 | Liquid and Irritating to eyes, respiratory system and skin                                                             |                              |
| GHS                                          |                                                                                                                                                                                                                                                                                 | No data referring to GHS standard                                                                                      |                              |
| Routes of Entry                              |                                                                                                                                                                                                                                                                                 | Inhalation, Ingestion, Skin Contact                                                                                    |                              |
| Health Effects                               |                                                                                                                                                                                                                                                                                 | Irritating to eyes, respiratory system and skin. Combustion products contains oxynitride and irritating organic gases. |                              |
| Environmental Hazards                        |                                                                                                                                                                                                                                                                                 | No data                                                                                                                |                              |
| Explosion Hazard                             |                                                                                                                                                                                                                                                                                 | No data                                                                                                                |                              |
| 3. Composition/information on ingredients    |                                                                                                                                                                                                                                                                                 |                                                                                                                        |                              |
| Composition                                  | Pure                                                                                                                                                                                                                                                                            | Chemical Name                                                                                                          | Ethyl Cyanoacrylate Adhesive |
| Concentration                                | 100%                                                                                                                                                                                                                                                                            | CAS No.                                                                                                                | 7085-85-0                    |
| 4. First-aid measures                        |                                                                                                                                                                                                                                                                                 |                                                                                                                        |                              |
| Skin Contact                                 | 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.<br>Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn. Burns |                                                                                                                        |                              |

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|                                                                      | should be treated normally after the adhesive has been removed from the skin.<br>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. |                |                         |
| Inhalation                                                           | Move to fresh air, consult doctor if complaint persists.                                                                                                                                                                                                                                                               |                |                         |
| Ingestion                                                            | Ensure that breathing passages are not obstructed. The product will polymerize immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours).                                                                                     |                |                         |
| 5. Fire-fighting measures                                            |                                                                                                                                                                                                                                                                                                                        |                |                         |
| Hazardous Combustion Products                                        | Oxides of carbon, oxides of nitrogen, irritating organic vapors.                                                                                                                                                                                                                                                       |                |                         |
| Suitable Extinguishing Media                                         | Foam, extinguishing powder, carbon dioxide. Fine water spray.                                                                                                                                                                                                                                                          |                |                         |
| Special protection equipment for firefighters                        | Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).                                                                                                                                                                                                                                 |                |                         |
| 6. Accidental release measures                                       |                                                                                                                                                                                                                                                                                                                        |                |                         |
| Personal Precaution                                                  | Ensure adequate ventilation.                                                                                                                                                                                                                                                                                           |                |                         |
| Environmental Precautions                                            | Do not let product enter drains.                                                                                                                                                                                                                                                                                       |                |                         |
| Clean-up Methods                                                     | Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.                                                                                                                                                      |                |                         |
| 7. Handling and storage                                              |                                                                                                                                                                                                                                                                                                                        |                |                         |
| Handling                                                             | Ventilation (low level) is recommended when using large volumes.<br>Use of dispensing equipment is recommended to minimize the risk of skin or eye contact.                                                                                                                                                            |                |                         |
| Storage                                                              | Ensure good ventilation/extraction.<br>Store in original containers at 8-21C (46.4-69.8F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.                                                                                                           |                |                         |
| 8. Exposure controls/personal protection                             |                                                                                                                                                                                                                                                                                                                        |                |                         |
| Components with specific control parameters for workplace TWA(mg/m³) |                                                                                                                                                                                                                                                                                                                        | 0.2 ppm        |                         |
| Respiratory Protection                                               | Eusure adequate ventilation                                                                                                                                                                                                                                                                                            | Eye Protection | Wear protective glasses |
| Body Protection                                                      | No data                                                                                                                                                                                                                                                                                                                |                |                         |
| 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.<br>The use of chemical resistant gloves such as Nitrile are recommended.                                          |                |                         |

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| <b>General protection and hygiene measures</b> | Good industrial hygiene practices should be observed.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>9. Physical and chemical properties</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Appearance</b>                              | Colorless and irritating liquid                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>pH</b>                                      | 6.5~7                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Boiling Point</b>                           | >148°C (>298.4°F)                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Flash Point</b>                             | >80°C (>176°F)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Vapor Pressure</b>                          | <0.6mbar (25°C (77°F))                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Density</b>                                 | 1.1g/cm <sup>3</sup> (20°C (68°F))                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Solubility (qualitative)</b>                | Polymerises in presence of water.                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>10. Polymerises in presence of water.</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Conditions to avoid</b>                     | Stable under normal conditions of storage and use. Keep away from heat. Avoid collision and friction. Prevent direct sunlight.                                                                                                                                                                                                                                                                                                                  |
| <b>Materials to avoid</b>                      | Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.                                                                                                                                                                                                                                                                                                                                              |
| <b>11. Toxicological information</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Oral Toxicity</b>                           | Cyanoacrylates are considered to have relatively low toxicity. Acute oral LD50 is >5000mg/kg (rat). It is almost impossible to swallow as it rapidly polymerises in the mouth.                                                                                                                                                                                                                                                                  |
| <b>Inhalative Toxicity</b>                     | Irritating to respiratory system.<br>Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals.<br>In dry atmosphere with < 50% humidity, vapours may irritate the eyes and respiratory system.                                                                                                                                                                                                 |
| <b>Skin Irritation</b>                         | Irritating to the skin.<br>Bonds skin in seconds. Considered to be of low toxicity: acute dermal LD50 (rabbit)>2000mg/kg.<br>Due to polymerisation at the skin surface allergic reaction is unlikely to occur.                                                                                                                                                                                                                                  |
| <b>Eye irritation</b>                          | Irritating to eyes.<br>Liquid product will bond eyelids. In a dry atmosphere (RH<50%) vapours may cause irritation and lachrymatory effect.                                                                                                                                                                                                                                                                                                     |
| <b>12. Ecological information</b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>General Ecological Information</b>          | Biological and Chemical Oxygen Demands (BOD and COD) are insignificant.<br>Do not empty into drains / surface water / ground water.                                                                                                                                                                                                                                                                                                             |
| <b>13. Disposal information</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Product</b>                                 | Disposal methods:<br>Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised land fill or incinerate under controlled conditions.<br>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.<br>Waste:<br>Waste adhesives and sealants containing organic solvents and other dangerous substances. |
| <b>Packaging</b>                               | Disposal methods:                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|                               | 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. |                                                                                                                                                                                                                                                                                                              |         |
| 14. Transport information     |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                              |         |
| Dangerous Goods No.           | No data                                                                                                                                                                                                                                 | Packaging Group                                                                                                                                                                                                                                                                                              | No data |
| Caution during Transportation | Avoid contact with sunlight, high temperature, water and shaking.                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                              |         |
| Summary                       | Not classified as dangerous for transport. The cargo is not subject to IMO/IMDG CODE IMO information is not regulated.                                                                                                                  |                                                                                                                                                                                                                                                                                                              |         |
| 15. Regulatory information    |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                              |         |
| China Chemical Regulations    |                                                                                                                                                                                                                                         | No data                                                                                                                                                                                                                                                                                                      |         |
| 16. Other information         |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                              |         |
| Latest Revision Date          |                                                                                                                                                                                                                                         | 2026-01-01                                                                                                                                                                                                                                                                                                   |         |
| Tabulation Department         |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                              |         |
| Review                        |                                                                                                                                                                                                                                         | LINYI JOINT NATURE CHEMICAL CO., LTD.                                                                                                                                                                                                                                                                        |         |
| Revision Description          |                                                                                                                                                                                                                                         | Amended once every five years or when the introduction of the new national laws and regulations. Due to no GHS standard in China, this MSDS is made referring to GB/T16483-2008. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. |         |