



Safety Data Sheet according to GB/T 16483-2008

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LOCTITE SUPERBONDER EN/CH/KR

SDS No. : 624092

V001.7

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1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE SUPERBONDER EN/CH/KR

Intended use: Adhesive

Manufacturer/Importer/Distributor Representative Company

Henkel Adhesive Technology (Shanghai) Co., Ltd.
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Revision date: 10.01.2024

**Emergency Telephone for
Chemical Accidents:** +86 21 2891 8311 (24h).

2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 (General rule for classification and hazard communication of chemicals):

| <u>Hazard Class</u> | <u>Hazard Category</u> | <u>Target organ</u> |
|---|------------------------|------------------------------|
| Flammable liquids | Category 4 | |
| Skin corrosion/irritation | Category 2 | |
| Serious eye damage/eye irritation | Category 2A | |
| Specific target organ toxicity - single exposure | Category 3 | respiratory tract irritation |

Label elements according to GB 15258-2009 (General rules for preparation of precautionary label for chemicals):

Hazard pictogram:



Signal word: Warning

| | |
|--------------------------|--|
| Hazard statement: | H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. |
| Prevention: | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves, eye protection, and face protection. |
| Response: | P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. |
| Storage: | P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. |
| Disposal: | P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |

3. Composition / information on ingredients

Substance or Mixture:

Mixture

Declaration of the ingredients according to GB 13690-2009:

| Hazard component CAS-No. | Content | GHS Classification |
|------------------------------------|--------------|--|
| Ethyl 2-cyanoacrylate 7085-85-0 | 90- <= 100 % | Flammable liquids 4 H227 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 2A H319 Specific target organ toxicity - single exposure 3 H335 |

Only hazardous ingredients for which a classification according to GB 13690-2009 is already available are displayed in this table. For full text of the Hazard statements see section 16 "Other information".

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.
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.

- Eye contact:** 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.
Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause any abrasive damage.
- Inhalation:** Move to fresh air, consult doctor if complaint persists.
- 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).

5. Fire fighting measures

- Extinguishing media:** Foam, extinguishing powder, carbon dioxide.
Fine water spray
- Fire-fighting method:** In case of fire, keep containers cool with water spray.
- Notice and measures for firing fighting:** In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released. In case of fire, keep containers cool with water spray.
Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

6. Accidental release measures

- Emergency measures:** Ensure adequate ventilation.
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

- Notice for handling:** Ventilation (low level) is recommended when using large volumes
Use of dispensing equipment is recommended to minimise the risk of skin or eye contact
- Notice for storage:** Refer to Technical Data Sheet

8. Exposure controls / personal protection

| Hazardous components | GBZ 2.1-2019 | ACGIH | NIOSH | OSHA |
|-----------------------|--------------|--------------------------|-------|------|
| Ethyl 2-cyanoacrylate | none | 1 ppm TWA 0.2 ppm TWA | | none |

- Engineering controls:** Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
- Respiratory protection:** Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A (EN 14387)
- Eye protection:** Wear protective glasses.

Body protection: Wear suitable protective clothing.

Hand protection: The use of chemical resistant gloves such as Nitrile is recommended.
Polyethylene or polypropylene gloves are recommended when using large volumes.

9. Physical and chemical properties

| | | | |
|---|--|----------------------------|--|
| Physical state: | liquid | Appearance: | colourless to yellowish |
| Evaporation rate: | Not available. | Odor: | Sharp |
| pH: | Not applicable, Product reacts with water. | Melting point: | Not applicable, Product is a liquid |
| Boiling point: | > 149 °C (> 300.2 °F) | Density: | 1.1 g/cm ³ |
| Vapor density: | > 1 | Vapor pressure: | Not available. |
| Flash point: | 80 - 93 °C (176 - 199.4 °F) | Ignition temperature: | Not available. |
| Lower explosive limit: | Not available. | Upper explosive limit: | Not available. |
| Solubility in water: | Polymerises in presence of water. | Viscosity: | 100.0 - 120.0 mPa.s 70.0 - 110.0 mPa.s > 20.5 mm ² /s |
| Auto-ignition temperature: | Not available. | Flammability: | Not available. |
| Octanol / water distribution coefficient: | Not available. | Decomposition temperature: | Not available. |
| VOC: | Bulk adhesive α-Cyanoacrylic Acids Assembly Industry < 20 g/kg, GB 33372-2020 Limit of volatile organic compounds content in adhesive | | |

10. Stability and reactivity

| | |
|--------------------------------|--|
| Conditions to avoid: | Stable under normal conditions of storage and use. |
| Incompatible products: | Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols. |
| Decomposition products: | carbon oxides. |

11. Toxicological information

General toxicological information:
No laboratory animal data available.

Carcinogenicity

No data available.

Acute toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|---------------------------------|--------------|--------------------------------|----------------------|---------------|---------------|--|
| Ethyl 2-cyanoacrylate 7085-85-0 | LD50 LD50 | > 5,000 mg/kg > 2,000 mg/kg | oral dermal | | rat rabbit | equivalent or similar to OECD Guideline 423 (Acute Oral toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

Skin corrosion/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---------------------------------|---------------------|---------------|---------|---|
| Ethyl 2-cyanoacrylate 7085-85-0 | slightly irritating | 24 h | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---------------------------------|------------|---------------|---------|--|
| Ethyl 2-cyanoacrylate 7085-85-0 | irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

| Hazardous components CAS-No. | Result | Test type | Species | Method |
|---------------------------------|-----------------|--------------------|------------|---------------|
| Ethyl 2-cyanoacrylate 7085-85-0 | not sensitising | Skin sensitisation | guinea pig | not specified |

Germ cell mutagenicity:

| Hazardous components CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---------------------------------|----------------------------------|---|--|---------|---|
| Ethyl 2-cyanoacrylate 7085-85-0 | negative negative negative | bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay | with and without with and without with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |

12. Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

Persistence and degradability:

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|------------------------------------|----------------------------|----------------------|---------------|---|
| Ethyl 2-cyanoacrylate 7085-85-0 | not readily biodegradable. | aerobic | 57 % | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

Bioaccumulative potential / Mobility in soil:

| Hazardous components CAS-No. | LogPow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|------------------------------------|--------|-------------------------------|---------------|---------|-------------|---------------------------------------|
| Ethyl 2-cyanoacrylate 7085-85-0 | 0.776 | | | | 22 °C | EU Method A.8 (Partition Coefficient) |

13. Disposal considerations

Product disposal:

Dispose of in accordance with local and national regulations.

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.

14. Transport information

Road transport CN_DG:

Not dangerous goods

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

| | |
|-------------------------------------|---|
| Class: | 9 |
| Packing group: | III |
| Packaging instructions (passenger): | 964 |
| Packaging instructions (cargo): | 964 |
| UN no.: | 3334 |
| Label: | 9 |
| Proper shipping name: | Aviation regulated liquid, n.o.s. (Cyanoacrylate ester) |
| Additional Information IATA: | Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted. |

Notice For Transportation:

Transport according to local and national regulations. Ensure containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when transported.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/unloading, classification as well as symbol.

“Law of the People's Republic of China on Work Safety” (Adopted by the 28th meeting of 9th NPC standing committee on 29th June 2002, revised by 29th meeting of 13nd NPC standing committee on 10th Jun 2021).

Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases” (Adopted by the 24th meeting of 9th NPC standing committee on 27th October 2001, revised by 7th meeting of 13rd NPC standing committee on 29th Dec 2018).

“Law of the People's Republic of China on environmental protection” (Adopted by 11st meeting of 7th NPC standing committee on 26th December 1989, revised by 8th meeting of 12nd NPC standing committee on 24th Apr 2014).

“Regulation on the Safety Management of Hazardous Chemicals” (Adopted by 32nd State Council executive meeting on 4th December 2013).

“Regulations on License to Work Safety” (Adopted by 54th State Council executive meeting on 29th July 2014).

China Inventory of Existing Chemicals:

All components are listed or are exempt from Inventory of Existing Chemical Substances in China.

16. Other information

| | |
|--------------------------|---|
| Issue date: | 10.09.2024 |
| Issue department: | Product Safety & Regulatory Affairs for China |

Disclaimer:

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Others:

The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:

H227 Combustible liquid.
H315 Causes skin irritation.
H319 Causes serious eye irritation.