



Revision Number: 004.1

Issue date: 03/27/2025

## 1. IDENTIFICATION

**Product name:** LOCTITE 4902 20G  
**Product type/** Cyanoacrylate  
**Recommended use:**  
**Restriction of Use:** None identified  
**Company address:**  
 Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067

**IDH number:** 1875841  
**Item number:** 1875841  
**Region:** United States  
**Contact information:**  
 Telephone: +1 (860) 571-5100  
 MEDICAL EMERGENCY Phone: Poison Control Center  
 1-877-671-4608 (toll free) or 1-303-592-1711  
 TRANSPORT EMERGENCY Phone: CHEMTREC  
 1-800-424-9300 (toll free) or 1-703-527-3887  
 MEDICAL EMERGENCY Phone: Poison Control Center  
 1-877-671-4608 (toll free) or 1-303-592-1711  
 TRANSPORT EMERGENCY Phone: CHEMTREC  
 1-800-424-9300 (toll free) or 1-703-527-3887  
 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**WARNING:** BONDS SKIN IN SECONDS.  
 H227 COMBUSTIBLE LIQUID.  
 H320 CAUSES EYE IRRITATION.  
 H335 MAY CAUSE RESPIRATORY IRRITATION.  
 H361 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

| HAZARD CLASS                                     | HAZARD CATEGORY |
|--|-----------------|
| FLAMMABLE LIQUID                                 | 4               |
| EYE IRRITATION                                   | 2B              |
| REPRODUCTIVE TOXICITY                            | 2               |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3               |

### PICTOGRAM(S)



### Precautionary Statements

**Prevention:** P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking.  
 P261 - Avoid breathing mist/vapours.  
 P264 - Wash affected area thoroughly after handling.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P280 - Wear protective gloves, clothing, eye and face protection.

**Response:** 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.  
 P308+P313 - IF exposed or concerned: Get medical attention.  
 P337+P313 - If eye irritation persists: Get medical attention.  
 P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

**Storage:** P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
 P405 - Store locked up.

**Disposal:** P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**Other hazards** Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s)       | CAS Number  | Weight %* |
|------------------------------|-------------|-----------|
| Ethyl 2-cyanoacrylate        | 7085-85-0   | 30 - 60   |
| 1-Methylheptyl cyanoacrylate | 133978-15-1 | 10 - 30   |
| tert-Butyl-4-methoxyphenol   | 25013-16-5  | 0.1 - 1   |

\* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

### 4. FIRST AID MEASURES

#### First Aid Measures by likely routes of exposure

|  |  |
|--|--|
| <b>Inhalation:</b>   | Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.  |
| <b>Skin contact:</b>   | Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.  |
| <b>Eye contact:</b>  | Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage. |
| <b>Ingestion:</b>  | Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.  |
| <b>Most important symptoms and effects (acute and delayed):</b>                  | The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.   |
| <b>Indication of any immediate medical attention / special treatment needed:</b> | Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.   |

### 5. FIRE FIGHTING MEASURES

|   |   |
|---|---|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.  |
| <b>Improper extinguishing agents:</b>     | Not available.  |
| <b>Special firefighting procedures:</b>   | Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode. |
| <b>Unusual fire or explosion hazards:</b> | Not available.  |

**Hazardous combustion products:**

Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:**

Do not allow product to enter sewer or waterways.

**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. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

## 7. HANDLING AND STORAGE

**Handling:**

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.

**Storage:**

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

**Shelf Life Statement:** Not available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

| Hazardous Component(s) | ACGIH TLV  | OSHA PEL | AIHA WEEL | OTHER |
|------------------------|--|----------|-----------|-------|
| Ethyl 2-cyanoacrylate  | 1 ppm STEL<br>0.2 ppm TWA<br>(Respiratory sensitization)<br>(Dermal sensitization) | None     | None      | None  |

**Engineering controls:**

Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

**Respiratory protection:**

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

**Eye/face protection:**

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

**Skin protection:**

Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |  |
|--|--|
| <b>Physical state:</b>                     | Liquid                                     |
| <b>Color:</b>                              | Clear                                      |
| <b>Odor:</b>                               | Irritating                                 |
| <b>Odor threshold:</b>                     | 1 - 2 ppm                                  |
| <b>pH:</b>                                 | Product reacts with water., Not applicable |
| <b>Vapor pressure:</b>                     | < 0.2 mm hg (20 °C (68°F))                 |
| <b>Boiling point/range:</b>                | > 149 °C (> 300.2 °F)                      |
| <b>Melting point/ range:</b>               | Not applicable, Product is a liquid        |
| <b>Density/Relative density:</b>           | 1.07                                       |
| <b>Relative vapor density:</b>             | Approximate 3 20 °C                        |
| <b>Flash point:</b>                        | 80 - 93 °C (176°F - 199.4 °F)              |
| <b>Flammable/Explosive limits - lower:</b> | Not available.                             |
| <b>Flammable/Explosive limits - upper:</b> | Not available.                             |
| <b>Autoignition temperature:</b>           | 485 °C (905°F)                             |
| <b>Flammability:</b>                       | The product is not flammable.              |

|   |   |
|---|---|
| <b>Evaporation rate:</b>  | Not available.  |
| <b>Solubility:</b>  | Polymerises in presence of water. Water                     |
| <b>Partition coefficient n-octanol/water (logarithmic value):</b> | Not available.  |
| <b>VOC content:</b>   | < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated) |
| <b>Dynamic viscosity:</b>   | Not available.  |
| <b>Kinematic viscosity:</b>                                       | > 20.5 mm <sup>2</sup> /s                                   |
| <b>Particle characteristics:</b>                                  | Not applicable, Product is a liquid                         |
| <b>Decomposition temperature:</b>                                 | Not available.  |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable under recommended storage conditions.   |
| <b>Hazardous reactions:</b>              | Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols. |
| <b>Hazardous decomposition products:</b> | None   |
| <b>Incompatible materials:</b>           | Water, Amines, Alkalis, Alcohols.  |
| <b>Reactivity:</b>                       | Not available.   |
| <b>Conditions to avoid:</b>              | Spontaneous polymerization.  |

## 11. TOXICOLOGICAL INFORMATION

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| <b>Likely routes of exposure:</b> | Skin, Inhalation, Eyes, Ingestion |
| <b>Likely routes of exposure:</b> | Skin, Inhalation, Eyes, Ingestion |

### Potential Health Effects/Symptoms

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | May cause respiratory tract irritation. Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest.   |
| <b>Inhalation:</b>   | Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest. May cause respiratory tract irritation.   |
| <b>Skin contact:</b> | Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin. |
| <b>Skin contact:</b> | Bonds skin in seconds. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin. May cause skin irritation. |
| <b>Eye contact:</b>  | Irritating to eyes. Causes excessive tearing. Eyelids may bond.  |
| <b>Eye contact:</b>  | Irritating to eyes. Causes excessive tearing. Eyelids may bond. Causes serious eye irritation.   |
| <b>Ingestion:</b>    | Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.  |
| <b>Ingestion:</b>    | Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow. Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed.   |

| Hazardous Component(s)       | LD50s and LC50s  |
|------------------------------|--|
| Ethyl 2-cyanoacrylate        | None   |
| 1-Methylheptyl cyanoacrylate | None   |
| tert-Butyl-4-methoxyphenol   | Oral LD50 (Rat) = 2,200 mg/kg<br>Oral LD50 (Mouse) = 2,000 mg/kg<br>Inhalation LC50 (Mouse, 4 h) = 336.097595 mg/l<br>Inhalation LC50 (Rat, 4 h) = 190.412308 mg/l |

| Hazardous Component(s)       | Immediate Health Effects | Delayed Health Effects | Chronic Health Effects           |
|------------------------------|--------------------------|------------------------|----------------------------------|
| Ethyl 2-cyanoacrylate        | Irritant                 | Allergen               | Respiratory                      |
| 1-Methylheptyl cyanoacrylate |                          |                        |                                  |
| tert-Butyl-4-methoxyphenol   | Irritant                 | Allergen               | Some evidence of carcinogenicity |

| Hazardous Component(s)       | NTP Carcinogen                                   | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------------|--|-----------------|--|
| Ethyl 2-cyanoacrylate        | No   | No              | No                                       |
| 1-Methylheptyl cyanoacrylate | No   | No              | No                                       |
| tert-Butyl-4-methoxyphenol   | Reasonably Anticipated to be a Human Carcinogen. | Group 2B        | No                                       |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose of according to Federal, State and local governmental regulations.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

### U.S. Department of Transportation Ground (49 CFR)

|                                  |  |
|----------------------------------|--|
| <b>Proper shipping name:</b>     | Combustible liquid, n.o.s. (Cyanoacrylate ester) |
| <b>Hazard class or division:</b> | Combustible Liquid                               |
| <b>Identification number:</b>    | NA 1993  |
| <b>Packing group:</b>            | III  |

**International Air Transportation (ICAO/IATA)**

**Proper shipping name:** Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)  
**Hazard class or division:** 9  
**Identification number:** UN 3334  
**Packing group:** III  
**Exceptions:** Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

**15. REGULATORY INFORMATION****United States Regulatory Information**

**TSCA 8 (b) Inventory Status:** All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.  
**TSCA 12 (b) Export Notification:** None above reporting de minimis.  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimis.  
**CERCLA/SARA Section 311/312:** Please refer to the GHS classification in Section 2  
**CERCLA/SARA Section 313:** None above reporting de minimis.  
**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**Canada Regulatory Information**

**CEPA DSL/NDSL Status:** One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

**16. OTHER INFORMATION**

**This safety data sheet contains changes from the previous version in sections:** New Safety Data Sheet format., Expanded chemical information in Section 2 and related sections.

**Prepared by:** Product Safety and Regulatory Affairs

**Issue date:** 03/27/2025

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This Safety Data Sheet has been generated based on OSHA Hazard Communication Standard (29 CFR 1910.1200) and provides information in accordance with U.S. federal law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.