

# Safety Data Sheet



Revision Number: 006.0

Issue date: 04/16/2021

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** LOCTITE EDAG 154 E&C known as ELECTRODAG154  
**Product type/use:** Coating  
**Restriction of Use:** None identified  
**Company address:** Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**IDH number:** 1224856

**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  
Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**DANGER:** HIGHLY FLAMMABLE LIQUID AND VAPOR.  
CAUSES SERIOUS EYE IRRITATION.  
MAY CAUSE DROWSINESS OR DIZZINESS.

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

### PICTOGRAM(S)



### Precautionary Statements

**Prevention:** Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into water. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection.

**Response:** If on skin (or hair): Take off immediately all contaminated clothing. 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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

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

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 | Percentage* |
|------------------------|------------|-------------|
| 2-Propanol             | 67-63-0    | 60 - 80     |
| Graphite               | 7782-42-5  | 10 - 30     |

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|                          |          |       |
|--------------------------|----------|-------|
| n-Butyl alcohol          | 71-36-3  | 1 - 5 |
| 2-methylpentane-2,4-diol | 107-41-5 | 1 - 5 |
| 1-methoxy-2-propanol     | 107-98-2 | 1 - 5 |

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

## 4. FIRST AID MEASURES

|                            |                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>         | Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.                                                                       |
| <b>Skin contact:</b>       | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. If symptoms develop and persist, get medical attention. |
| <b>Eye contact:</b>        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.                                                                                        |
| <b>Ingestion:</b>          | Get medical attention. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.                                                    |
| <b>Symptoms:</b>           | See Section 11.                                                                                                                                                                                        |
| <b>Notes to physician:</b> | Treat symptomatically and supportively.                                                                                                                                                                |

## 5. FIRE FIGHTING MEASURES

|                                           |                                                                                                                                                                                                                                                                   |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Extinguishing media:</b>               | Water spray (fog), foam, dry chemical or carbon dioxide.                                                                                                                                                                                                          |
| <b>Special firefighting procedures:</b>   | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.                                                                                                              |
| <b>Unusual fire or explosion hazards:</b> | Fire and Explosion hazards are DANGEROUS when this material is exposed to heat or flame. Vapors are heavier than air and may travel to ignition sources and flash back. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. |
| <b>Hazardous combustion products:</b>     | Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.                                                                                                                     |

## 6. ACCIDENTAL RELEASE MEASURES

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

|                                   |                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.                                                                                                                                                                                                                                                                                           |
| <b>Clean-up methods:</b>          | Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. |

## 7. HANDLING AND STORAGE

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling:</b> | Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. Refer to Section 8. Ground and bond all equipment as required (when transferring products). Keep away from heat, spark and flame.                                                                                                                                      |
| <b>Storage:</b>  | For safe storage, store between 5 °C (41°F) and 32 °C (89.6 °F). Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Ground and bond metal containers for liquid transfer to avoid static sparks. Protect from direct sunlight. Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers. |

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 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 |
|--------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------|-------|
| 2-Propanol               | 200 ppm TWA<br>400 ppm STEL                                                                                 | 400 ppm (980 mg/m <sup>3</sup> ) PEL                                                    | None      | None  |
| Graphite                 | 2 mg/m <sup>3</sup> TWA<br>Respirable fraction.                                                             | 5 mg/m <sup>3</sup> PEL<br>Respirable fraction.<br>15 mg/m <sup>3</sup> PEL Total dust. | None      | None  |
| n-Butyl alcohol          | 20 ppm TWA                                                                                                  | 100 ppm (300 mg/m <sup>3</sup> ) PEL                                                    | None      | None  |
| 2-methylpentane-2,4-diol | 10 mg/m <sup>3</sup> STEL<br>Aerosol, inhalable.<br>50 ppm STEL Vapor fraction<br>25 ppm TWA Vapor fraction | None                                                                                    | None      | None  |
| 1-methoxy-2-propanol     | 50 ppm TWA<br>100 ppm STEL                                                                                  | None                                                                                    | None      | None  |

### Engineering controls:

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product. Explosion-proof exhaust devices are required.

### 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. Safety showers and eye wash stations should be available.

### Skin protection:

Use impermeable gloves and protective clothing as necessary to prevent skin contact. Gloves should be tested to determine suitability for prolonged contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                          |                                              |
|------------------------------------------|----------------------------------------------|
| Physical state:                          | Liquid                                       |
| Color:                                   | Gray                                         |
| Odor:                                    | Alcohol                                      |
| Odor threshold:                          | 7.5 ppm                                      |
| pH:                                      | Not available.                               |
| Vapor pressure:                          | 31 mm hg                                     |
| Boiling point/range:                     | > 82.3 °C (> 180.1 °F)                       |
| Melting point/ range:                    | < 0 °C (< 32°F)                              |
| Specific gravity:                        | 0.875 - 0.900                                |
| Vapor density:                           | 2.07 (Air = 1)                               |
| Flash point:                             | 11.1 °C (51.98 °F) Pensky Martens closed cup |
| Flammable/Explosive limits - lower:      | 2 %                                          |
| Flammable/Explosive limits - upper:      | 12 %                                         |
| Autoignition temperature:                | > 398.8 °C (> 749.84 °F)                     |
| Flammability:                            | Not applicable                               |
| Evaporation rate:                        | Not available.                               |
| Solubility in water:                     | Soluble                                      |
| Partition coefficient (n-octanol/water): | Not available.                               |
| VOC content:                             | 80 %; 710 g/l (calculated)                   |
| Viscosity:                               | 200 - 400 cp                                 |
| Decomposition temperature:               | Not available.                               |

## 10. STABILITY AND REACTIVITY

|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability:</b>                        | Stable under normal conditions of storage and use.                                                                           |
| <b>Hazardous reactions:</b>              | None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials. |
| <b>Hazardous decomposition products:</b> | Oxides of carbon. Hydrocarbons. Irritating organic vapours.                                                                  |
| <b>Incompatible materials:</b>           | Strong oxidizing agents (peroxides, chlorine, strong acids). Strong acids and strong bases.                                  |
| <b>Reactivity:</b>                       | Not available.                                                                                                               |
| <b>Conditions to avoid:</b>              | High temperatures. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.               |

## 11. TOXICOLOGICAL INFORMATION

**Relevant routes of exposure:** Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects/Symptoms

|                      |                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | May cause respiratory tract irritation. May cause central nervous system effects with nausea, dizziness and headache. |
| <b>Skin contact:</b> | May cause skin irritation.                                                                                            |
| <b>Eye contact:</b>  | May cause severe eye irritation.                                                                                      |
| <b>Ingestion:</b>    | May cause gastrointestinal tract irritation if swallowed.                                                             |

| Hazardous Component(s)   | LD50s and LC50s                                                                                                                                                                                                                                                              | Immediate and Delayed Health Effects                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 2-Propanol               | Oral LD50 (Rat) = 5,045 mg/kg<br>Oral LD50 (Mouse) = 3,600 mg/kg<br>Oral LD50 (Rabbit) = 6,410 mg/kg<br>Oral LD50 (Rat) = 4.7 g/kg<br>Oral LD50 (Mouse) = 4.5 g/kg<br>Oral LD50 (Rabbit) = 8.0 g/kg<br>Oral LD50 (Rabbit) = 5.03 g/kg<br>Dermal LD50 (Rabbit) = 12,800 mg/kg | Allergen, Central nervous system, Irritant            |
| Graphite                 | Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3<br>Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3                                                                                                                                                                                     | Lung                                                  |
| n-Butyl alcohol          | Oral LD50 (Rat) = 790 mg/kg<br>Dermal LD50 (Rabbit) = 3,400 mg/kg                                                                                                                                                                                                            | Allergen, Central nervous system, Ear, Eyes, Irritant |
| 2-methylpentane-2,4-diol | Oral LD50 (Rat) = 4.79 g/kg<br>Oral LD50 (Mouse) = 3.5 g/kg                                                                                                                                                                                                                  | Irritant, Central nervous system                      |
| 1-methoxy-2-propanol     | Oral LD50 (Rat) = 36 g/kg<br>Oral LD50 (Rat) = 5.71 g/kg<br>Oral LD50 (Rat) = 7.51 g/kg<br>Oral LD50 (Mouse) = 10.8 g/kg<br>Oral LD50 (Rabbit) = 5.3 g/kg<br>Dermal LD50 (Rabbit) = 13 g/kg                                                                                  | Central nervous system, Developmental, Irritant       |

| Hazardous Component(s)   | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|--------------------------|----------------|-----------------|------------------------------------------|
| 2-Propanol               | No             | No              | No                                       |
| Graphite                 | No             | No              | No                                       |
| n-Butyl alcohol          | No             | No              | No                                       |
| 2-methylpentane-2,4-diol | No             | No              | No                                       |
| 1-methoxy-2-propanol     | No             | No              | No                                       |

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Do not empty into drains / surface water / ground water.

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

### 14. TRANSPORT INFORMATION

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

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

Proper shipping name: Paint  
Hazard class or division: 3  
Identification number: UN 1263  
Packing group: II

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

Proper shipping name: Paint  
Hazard class or division: 3  
Identification number: UN 1263  
Packing group: II

#### Water Transportation (IMO/IMDG)

Proper shipping name: PAINT  
Hazard class or division: 3  
Identification number: UN 1263  
Packing group: II

### 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:** Immediate Health, Delayed Health, Fire  
**CERCLA/SARA Section 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). n-Butyl alcohol (CAS# 71-36-3).  
**CERCLA Reportable quantity:** 2-Propanol (CAS# 67-63-0) 100 lbs. (45.4 kg)

**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/NDL Status:** All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

### 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Regulatory Affairs

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