



Revision Number: 005.2

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## 1. IDENTIFICATION

<b>Product name:</b>	<b>LOCTITE 480 INSTANT ADHESIVE, BLACK known as 480 Prism® Instant Adhesive, B</b>	<b>IDH number:</b>	135466
<b>Product type/Recommended use:</b>	Cyanoacrylate	<b>Item number:</b>	48040
<b>Restriction of Use:</b>	None identified	<b>Region:</b>	United States
<b>Company address:</b>	<b>Contact information:</b> 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		
Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067			

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**WARNING:** BONDS SKIN IN SECONDS.  
 H227 COMBUSTIBLE LIQUID.  
 H320 CAUSES EYE IRRITATION.  
 H335 MAY CAUSE RESPIRATORY IRRITATION.  
 H351 SUSPECTED OF CAUSING CANCER.

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

### PICTOGRAM(S)



### Precautionary Statements

<b>Prevention:</b>	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.
<b>Response:</b>	P280 - Wear protective gloves, clothing, eye and face protection. 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.
<b>Storage:</b>	P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.

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**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	80 - 100
Carbon black - Nano	1333-86-4	1 - 5
Phthalic anhydride	85-44-9	0.1 - 1
Hydroquinone	123-31-9	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>	None

**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:**

Ventilate area. 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:**

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. 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:**

For safe storage, store between 2 °C (35.6 °F) and 8 °C (46.4 °F). Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

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
Ethyl 2-cyanoacrylate	1 ppm STEL 0.2 ppm TWA (Respiratory sensitization) (Dermal sensitization)	None	None	None
Carbon black - Nano	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 PEL 5 mg/m3 TWA Respirable fraction. 50 MPPCF TWA Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Phthalic anhydride	0.005 mg/m3 STEL Inhalable fraction and vapor. 0.002 mg/m3 TWA Inhalable fraction and vapor. (SKIN) Inhalable fraction and vapor. 0.05 mg/100 cm2 TLV-SL Inhalable fraction and vapor. (Respiratory sensitization) (Dermal sensitization)	2 ppm (12 mg/m3) PEL	None	None
Hydroquinone	1 mg/m3 TWA (Dermal sensitization)	2 mg/m3 PEL	None	None

**Engineering controls:**

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

<b>Respiratory protection:</b>	Use a NIOSH approved air-purifying respirator with an organic vapor cartridge.
<b>Eye/face protection:</b>	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.
<b>Skin protection:</b>	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>	Black
<b>Odor:</b>	Sharp, Irritating
<b>Odor threshold:</b>	1 - 2 ppm
<b>pH:</b>	Not applicable, Product reacts with water.
<b>Vapor pressure:</b>	< 0.5 mm hg (25 °C (77°F)) < 700 hPa (50 °C (122°F)) no method / method unknown
<b>Boiling point/range:</b>	> 149 °C (> 300.2 °F)no method / method unknown
<b>Melting point/ range:</b>	Not applicable, Product is a liquid
<b>Density/Relative density:</b>	1.1 at 20 °C (68°F)
<b>Relative vapor density:</b>	3 20 °C
<b>Flash point:</b>	80 - 93 °C (176°F - 199.4 °F) Tagliabue closed cup
<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>Solubility:</b>	Miscible Acetone
<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 and 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
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## 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>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>Eye contact:</b>	Irritating to eyes. Causes excessive tearing. Eyelids may bond.
<b>Ingestion:</b>	Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

Hazardous Component(s)	LD50s and LC50s
Ethyl 2-cyanoacrylate	None
Carbon black - Nano	Oral LD50 (Rat) = > 8,000 mg/kg
Phthalic anhydride	Oral LD50 (Rat) = 800 mg/kg Oral LD50 (Mouse) = 1,500 mg/kg Oral LD50 (Rat) = 1,530 mg/kg Oral LD50 (Rat) = 4,020 mg/kg Oral LD50 (Rabbit) = > 1,000 mg/kg Dermal LD50 (Rabbit) = > 3,160 mg/kg Inhalation LC50 (Rat, 4 h) = > 2.14 mg/l
Hydroquinone	Oral LD50 (Rat) = 320 mg/kg Oral LD50 (Mouse) = 245 mg/kg Oral LD50 (Rabbit) = 540 mg/kg Dermal LD50 (Rat) = > 900 mg/kg

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Ethyl 2-cyanoacrylate	Irritant	Allergen	Respiratory
Carbon black - Nano			
Phthalic anhydride	Corrosive Irritant	Allergen	Respiratory
Hydroquinone	Irritant		Blood Bone Marrow Central nervous system Developmental Eyes Immune system Liver Mutagen Skin Thyroid

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Carbon black - Nano	Known To Be Human Carcinogen.	Group 2B	No
Phthalic anhydride	No	No	No
Hydroquinone	No	No	No

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.

## 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 packaging.

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

**Proper shipping name:** Combustible liquid, n.o.s. (Cyanoacrylate ester)  
**Hazard class or division:** Combustible Liquid  
**Identification number:** NA 1993  
**Packing group:** 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:** Hydroquinone (CAS# 123-31-9).  
**CERCLA/SARA Section 311/312:** Please refer to the GHS classification in Section 2  
**CERCLA/SARA Section 313:** None above reporting de minimis.  
**CERCLA Reportable quantity:** Hydroquinone (CAS# 123-31-9) 100 lbs. (45.4 kg)  
**California Proposition 65:** This product contains a chemical known in the State of California to cause cancer.

### 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. 1-16

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

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