

Revision Number: 001.0 Issue date: 06/15/2016

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE HY 4080 GY KIT PART A

Product type: Cyanoacrylate Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

**IDH number:** 2217624

Item number: KIT PT A HY4080 GY

Region: United States

Contact information: Telephone: (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** 

WARNING: BONDS SKIN IN SECONDS.

CAUSES EYE IRRITATION.

MAY CAUSE RESPIRATORY IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
EYE IRRITATION	2B
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

## PICTOGRAM(S)



#### **Precautionary Statements**

Prevention: Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only

outdoors or in a well-ventilated area.

Response: 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.

Storage: Store in a well-ventilated place. Keep container tightly closed. 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*
Ethyl 2-cyanoacrylate	7085-85-0	60 - 100

Tert-butyl perbenzoate 614-45-9 5 - 10

#### 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: 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.

**Eye contact:** 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.

**Ingestion:** 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.

Symptoms: See Section 11.

Notes to physician: 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 bums they should be treated

symptomatically after adhesive is removed.

## 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in

pressure-demand or other positive pressure mode.

Unusual fire or explosion hazards: 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.

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

# 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: 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	0.2 ppm TWA	None	None	None
Tert-butyl perbenzoate	None	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

Physical state: Liquid Color: Black Odor: Irritating Odor threshold: Not available. pH: Not available. . Vapor pressure: Not available. Boiling point/range: Not available. Melting point/ range: Not available. Vapor density: Not available. Flash point: > 100 °C (> 212°F) Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Flammability Not applicable **Evaporation rate:** Not available. Solubility in water: Not available. Partition coefficient (n-octanol/water): Not available. **VOC** content: < 3 % Viscosity: Not available. **Decomposition temperature:** Not available.

IDH number: 2217624 Product name: LOCTITE HY 4080 GY KIT PART A

# 10. STABILITY AND REACTIVITY

**Stability**: Stable under recommended storage conditions.

Hazardous reactions: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and

alcohols.

Hazardous decomposition

products:

IDH number: 2217624

None

**Incompatible materials:** Water, amines, alkalis and alcohols.

Reactivity: Not available.

Conditions to avoid: Spontaneous polymerization.

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation: 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.

**Skin contact:** May cause skin irritation. 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.

**Eye contact:** Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Ingestion: 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	Immediate and Delayed Health Effects
Ethyl 2-cyanoacrylate	None	Irritant, Allergen, Respiratory
Tert-butyl perbenzoate	None	Central nervous system, Irritant, Mutagen

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Tert-butyl perbenzoate	No	No	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.

**Hazardous waste number:**Not a RCRA hazardous waste.

#### 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:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
None
None

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: Not more than 500 ml (each inner package) - 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 or are exempt from listing on the Toxic Substances Control Act

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: Reactive, Fire, Immediate Health, Delayed Health

CERCLA/SARA Section 313: None above reporting de minimis.

CERCLA Reportable quantity: Tert-butyl perbenzoate (CAS# 614-45-9) 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/NDSL 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: Catherine Bimler, Regulatory Affairs Specialist

**Issue date:** 06/15/2016

IDH number: 2217624 Product name: LOCTITE HY 4080 GY KIT PART A

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IDH number: 2217624 Product name: LOCTITE HY 4080 GY KIT PART A



Revision Number: 001.0 Issue date: 02/01/2016

## 1. PRODUCT AND COMPANY IDENTIFICATION

**LOCTITE HY 4080 GY KIT PART B** IDH number: Product name: 2217623

Product type: Item number: KIT PT B HY4080 GY Sample only. Restriction of Use: Region: None identified **United States Contact information:** 

Company address: Henkel Corporation

One Henkel Way MEDICAL EMERGENCY Phone: Poison Control Center Rocky Hill, Connecticut 06067 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

Telephone: (860) 571-5100

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** WARNING: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

# PICTOGRAM(S)



#### **Precautionary Statements**

Prevention: Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace. Wear protective

gloves, eye protection, and face protection.

IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several Response: minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or

rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off

contaminated clothing.

Storage: Not prescribed

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*
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Polyurethane methacrylate	Proprietary	30 - 60
Hydroxyalkyl methacrylate	27813-02-1	10 - 30
2-Hydroxyethyl acrylate, polymer with α- Epichlorohydrin, phthalic anhydride, 4,4'- Bisphenol A and ε-Caprolactone	153128-88-2	10 - 30
Filler	Proprietary	5 - 10
High boiling methacrylate	Proprietary	5 - 10
Polypropylene methacrylate	Proprietary	0.1 - 1
Acrylate	Proprietary	0.1 - 1

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

## 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. If symptoms develop and persist, get medical attention.

Skin contact: Rinse with running water and soap. Obtain medical attention if irritation

persists.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes), seek medical

attention from a specialist.

Ingestion: Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a

doctor. Never give anything by mouth to an unconscious person.

Symptoms: See Section 11.

#### 5. FIRE FIGHTING MEASURES

Extinguishing media: water, carbon dioxide, foam, powder

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and

nitrogen oxides (NOx) can be released. In case of fire, keep containers cool

with water spray.

Hazardous combustion products: Not available.

# 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 empty into drains / surface water / ground water.

Clean-up methods: For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal. 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: Not available.

IDH number: 2217623 Product name: LOCTITE HY 4080 GY KIT PART B

### 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
Polyurethane methacrylate	None	None	None	None
Hydroxyalkyl methacrylate	None	None	None	1 ppm TWA 3 ppm STEL
2-Hydroxyethyl acrylate, polymer with α- Epichlorohydrin, phthalic anhydride, 4,4'- Bisphenol A and ε-Caprolactone	None	None	None	None
Filler	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
High boiling methacrylate	None	None	None	None
Polypropylene methacrylate	None	None	None	None
Acrylate	None	None	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

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 impermeable gloves and protective clothing as necessary to prevent skin

contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid, gel Color: White Odor: Acrylic Odor threshold: Not available. Not available. Vapor pressure: Not available. Boiling point/range: Not available. Melting point/ range: Not available. Vapor density: Not available. Flash point: > 110 °C (> 230°F) Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Evaporation rate: Not available. Solubility in water: Not available. Partition coefficient (n-octanol/water): Not available.

VOC content: < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)

Viscosity: Not available.

Decomposition temperature: Not available.

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Not available.

Hazardous decomposition

products:

carbon oxides. Hydrocarbons nitrogen oxides Rapid polymerisation may generate excessive

heat and pressure.

Incompatible materials: Strong oxidizing agents. Strong bases. Acids. Reducing agents.

Reactivity: Not available.

**Conditions to avoid:** No decomposition if stored and applied as directed.

# 11. TOXICOLOGICAL INFORMATION

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

#### Potential Health Effects/Symptoms

Inhalation: Not expected under normal conditions of use. May cause respiratory tract irritation.

**Skin contact:** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** Not expected under normal conditions of use. May cause gastrointestinal tract irritation if

swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Polyurethane methacrylate	None	No Records
Hydroxyalkyl methacrylate	None	Irritant, Allergen
2-Hydroxyethyl acrylate, polymer with α- Epichlorohydrin, phthalic anhydride, 4,4'- Bisphenol A and ε-Caprolactone	None	No Data
Filler	None	Irritant
High boiling methacrylate	None	Irritant, Allergen
Polypropylene methacrylate	None	Irritant, Allergen
Acrylate	Dermal LD50 (RABBIT) = 1,010 mg/kg	Allergen, Central nervous system, Heart, Irritant, Kidney, Liver, Lung, Some evidence of carcinogenicity, Spleen

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polyurethane methacrylate	No	No	No
Hydroxyalkyl methacrylate	No	No	No
2-Hydroxyethyl acrylate, polymer with α- Epichlorohydrin, phthalic anhydride, 4,4'- Bisphenol A and ε-Caprolactone	No	No	No
Filler	No	No	No
High boiling methacrylate	No	No	No
Polypropylene methacrylate	No	No	No
Acrylate	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.

Hazardous waste number: Not a RCRA hazardous waste.

#### 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:
Hazard class or division:
Identification number:
Packing group:
Not regulated
None
None
None

International Air Transportation (ICAO/IATA)

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
None

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 or are exempt from listing on the Toxic Substances Control Act

Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA Section 313:

None above reporting de minimis.
None above reporting de minimis.

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

**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.

Prepared by: Catherine Bimler, Regulatory Affairs Specialist

**Issue date:** 02/01/2016

IDH number: 2217623 Product name: LOCTITE HY 4080 GY KIT PART B

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IDH number: 2217623 Product name: LOCTITE HY 4080 GY KIT PART B