

Revision Number: 007.0 Issue date: 11/05/2018

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE AA 3103 LIGHT CURING IDH nun known as Loctite(R) 3103 Adhesive

Flex

Product type: Ultraviolet adhesive Restriction of Use: None identified

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

**IDH number:** 146471

Item number: 23691 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

TRANSPORT EMERGENCY Phone: CHEMTRE 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

WARNING: COMBUSTIBLE LIQUID.

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2

#### PICTOGRAM(S)



#### **Precautionary Statements**

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Keep away from heat, sparks, open flames, hot surfaces - no smoking. 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, clothing, eye and face protection.

Response: IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. In case of fire: Use

foam, dry chemical or carbon dioxide to extinguish.

**Storage:** 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.

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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*
Isobornyl acrylate	5888-33-5	30 - 60
2-Hydroxyethyl methacrylate	868-77-9	10 - 30
Photoinitiator	24650-42-8	1 - 5
Gamma-glycidoxypropyl trimethoxysilane	2530-83-8	1 - 5
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	1 - 5
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Methacrylic acid	79-41-4	0.1 - 1
2-Hydroxyethyl acrylate	818-61-1	0.1 - 1

<sup>\*</sup> Exact percentages may vary or are 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. Get medical attention.

**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. Get medical attention. Wash clothing

before reuse.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical

attention.

Symptoms: See Section 11.

#### 5. FIRE FIGHTING MEASURES

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

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

turn-out gear. Water may be unsuitable as an extinguishing media, but may be

helpful in keeping adjacent containers cool.

Unusual fire or explosion hazards: Uncontrolled polymerization may occur at high temperatures resulting in

explosions or rupture of storage containers.

**Hazardous combustion products:** Oxides of carbon. Oxides of nitrogen. Oxides of silicon. Oxides of phosphorus.

Formaldehyde. Hydrogen cyanide. Amines. Isocyanates. Irritating organic

vapours.

## 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.

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Clean-up methods:

Remove all sources of ignition. 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. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

#### 7. HANDLING AND STORAGE

Handling: 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.

Storage: For safe storage, store between 10 °C (50°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.

## 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
Isobornyl acrylate	None	None	None	None
2-Hydroxyethyl methacrylate	None	None	None	3 ppm Ceiling
Photoinitiator	None	None	None	None
Gamma-glycidoxypropyl trimethoxysilane	None	None	None	None
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Methacrylic acid	20 ppm TWA	None	None	None
2-Hydroxyethyl 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. Safety

showers and eye wash stations should be available.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact. Neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Transparent, Slightly Hazy

Odor: Mild

Odor threshold:

pH:

Not available.

Not applicable

Vapor pressure:< 5 mm hg (20 °C (68°F))</th>Boiling point/range:> 93 °C (> 199.4 °F)Melting point/ range:Not available.Specific gravity:1.1642

Specific gravity: 1.10 Vapor density: > 1

Flash point: 86 °C (186.8 °F) Pensky Martens closed cup

Flammable/Explosive limits - lower: Not available.

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Flammable/Explosive limits - upper:
Autoignition temperature:
Not available.
Flammability:
Not applicable
Evaporation rate:
Not available.
Solubility in water:
Slight

Partition coefficient (n-octanol/water): Not available.

**VOC content:**1.24 %; 14.44 g/l (process)
0.94 %; 10.94 g/l (potential)

2.18 %; 25.38 g/l (total)

(ASTM D5403) Not available.

Viscosity:Not available.Decomposition temperature:Not available.

## 10. STABILITY AND REACTIVITY

**Stability**: Unstable at higher temperatures.

Stable under recommended storage conditions.

Hazardous reactions: None under normal processing. Polymerization may occur at elevated temperature or in the

presence of incompatible materials.

**Hazardous decomposition** 

products:

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Oxides of carbon. Oxides of nitrogen. Oxides of silicon. Oxides of phosphorus. Irritating organic vapours. Dimethylamine. Formaldehyde. Hydrogen cyanide. Isocyanates. Amines.

**Incompatible materials:** Strong oxidizing agents. Strong reducing agents. Strong acids. Strong bases. Free radical

initiators. Water. Humid air. Heavy metals.

Reactivity: Not available.

Conditions to avoid: Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.

Ultraviolet radiation. Direct sunlight. Freezing conditions.

#### 11. TOXICOLOGICAL INFORMATION

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

#### **Potential Health Effects/Symptoms**

Inhalation of vapors or mists of the product may be irritating to the respiratory system. Causes skin irritation. May cause allergic skin reaction. Inhalation:

Skin contact:

Eve contact:

Causes serious eye irritation.
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion:

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Isobornyl acrylate	None	Irritant, Allergen	
2-Hydroxyethyl methacrylate	Oral LD50 (Mouse) = 3,275 mg/kg Oral LD50 (Rat) = 11.2 g/kg Oral LD50 (Rat) = 5,050 mg/kg	Irritant, Allergen	
Photoinitiator	None	No Target Organs	
Gamma-glycidoxypropyl trimethoxysilane	None	Allergen, Irritant	
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	None	No Records	
Silica, amorphous, fumed, crystal-free	None	Nuisance dust	
Methacrylic acid	Oral LD50 (Mouse) = 1,332 mg/kg Oral LD50 (Mouse) = 1,600 mg/kg Oral LD50 (Mouse) = 1,250 mg/kg Oral LD50 (Rabbit) = 1,200 mg/kg Oral LD50 (Rat) = 1,060 mg/kg Oral LD50 (Rat) = 2,224 mg/kg Dermal LD50 (Rabbit) = 500 mg/kg	Corrosive, Irritant, Allergen	
2-Hydroxyethyl 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)
Isobornyl acrylate	No	No	No
2-Hydroxyethyl methacrylate	No	No	No
Photoinitiator	No	No	No
Gamma-glycidoxypropyl trimethoxysilane	No	No	No
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Methacrylic acid	No	No	No
2-Hydroxyethyl acrylate	No	No	No

# 12. ECOLOGICAL INFORMATION

**Ecological information:** 

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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: Combustible liquid, n.o.s. (Methacrylate esters)

Hazard class or division: Combustible Liquid

Identification number: NA 1993
Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (2,2-Dimethoxy-1,2-

diphenylethan-1-one)

Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2-

Dimethoxy-1,2-diphenylethan-1-one)

Hazard class or division:

Identification number: UN 3082 Packing group: III

Marine pollutant: 2,2-Dimethoxy-1,2-diphenylethan-1-one

## 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: Immediate Health, Delayed Health, Fire 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

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CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other

components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

#### 16. OTHER INFORMATION

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

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Prepared by: Product Safety and Regulatory Affairs

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