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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) 3103 Adhesive Flex UV Curing
Product type: Ultraviolet adhesive
Company address: Henkel Corporation, 1001 Trout Brook Crossing, Rocky Hill, Connecticut 06067

Item No.: 23691
Region: United States
Contact Information: Telephone: 860.571.5100, Emergency telephone: 860.571.5100, Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Table with 5 columns: Hazardous components, %, ACGIH TLV, OSHA PEL, OTHER. Lists ingredients like Urethane polymers, Isobornyl acrylate, Hydroxyalkyl methacrylate, etc.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
HMIS:
Physical state: Liquid
Color: Transparent to Slightly Hazy
Odor: Mild
HEALTH: 2\*
FLAMMABILITY: 2
PHYSICAL HAZARD: 1
Personal Protection: See Section 8
WARNING: COMBUSTIBLE LIQUID
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Inhalation, Eyes

Item No.: 23691

Product name: Loctite(R) 3103 Adhesive Flex UV Curing

## Potential Health Effects

**Inhalation:** May cause respiratory tract irritation.  
**Skin contact:** May cause skin irritation. May cause allergic skin reaction.  
**Eye contact:** May cause irritation.  
**Ingestion:** May be harmful if swallowed.

**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

## 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If symptoms develop and persist, get medical attention.

**Skin contact:** Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

**Eye contact:** Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.

**Ingestion:** Do not induce vomiting. Keep individual calm. Obtain medical attention.

## 5. FIRE-FIGHTING MEASURES

**Flash point:** 86°C (179.6°F) Pinsky Martens closed cup

**Autoignition temperature:** Not available

**Flammable/Explosive limits-lower %:** Not available

**Flammable/Explosive limits-upper %:** Not available

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

**Special fire fighting procedures:** None

**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 sulfur. Oxides of phosphorus. Irritating organic vapors.

## 6. ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Remove sources of ignition. Prevent product from entering drains or open waters.

**Clean-up methods:** Spontaneous hazardous polymerization may occur. Ventilate area. Soak up with inert absorbent. Store in a partly filled, closed container until disposal.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Keep away from heat, spark and flame. Avoid contact with eyes, skin and clothing. Use only in area provided with appropriate exhaust ventilation.
<b>Storage:</b>	For safe storage, store between 10°C (50°F) and 32°C (90°F). Store away from heat, sparks, flames, or other sources of ignition.
<b>Incompatible products:</b>	Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
<b>Respiratory protection:</b>	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
<b>Skin protection:</b>	Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves.
<b>Eye/face protection:</b>	Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Transparent to Slightly Hazy
<b>Odor:</b>	Mild
<b>Vapor pressure:</b>	Less than 5 mm Hg at 20°C (68°F)
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	Greater than 93°C (200°F)
<b>Melting point/range:</b>	Not available
<b>Specific gravity:</b>	1.1642
<b>Vapor density:</b>	Greater than 1
<b>Evaporation rate:</b>	Not available
<b>Solubility in water:</b>	Slight
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	ASTM D5403 Process volatiles 1.24 %, 14.44 grams/liter; Potential volatiles 0.94 %, 10.94 grams/liter; Total volatiles 2.18 %, 25.38 grams/liter.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Unstable.
<b>Hazardous polymerization:</b>	May occur.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Oxides of phosphorous. Irritating organic vapors. Dimethylamine.
<b>Incompatibility:</b>	Strong oxidizers. Strong acids. Strong bases.
<b>Conditions to avoid:</b>	See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

## 11. TOXICOLOGICAL INFORMATION

<b>Product toxicity data:</b>	Acute oral LD50 greater than 5000mg/kg (rat)(estimated). Acute dermal LD50 greater than 2000 mg/kg (rabbit) (estimated).
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### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Urethane polymers 69011-33-2	No	No	No
Isobornyl acrylate 5888-33-5	No	No	No
Hydroxyalkyl methacrylate 868-77-9	No	No	No
Photoinitiator 24650-42-8	No	No	No
Substituted silane Proprietary	No	No	No
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide 75980-60-8	No	No	No
Silica, amorphous, fumed, crystalline-free 112945-52-5	No	No	No
Hydroxyethyl acrylate 818-61-1	No	No	No

#### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Urethane polymers 69011-33-2	No Records
Isobornyl acrylate 5888-33-5	Allergen, Irritant
Hydroxyalkyl methacrylate 868-77-9	Allergen, Irritant
Photoinitiator 24650-42-8	No Target Organs
Substituted silane Proprietary	Allergen, Irritant
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide 75980-60-8	No data
Silica, amorphous, fumed, crystalline-free 112945-52-5	Nuisance dust
Hydroxyethyl acrylate 818-61-1	Allergen, Central nervous system, Heart, Irritant, Kidney, Liver, Lung, Some evidence of carcinogenicity, Spleen

## 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.

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

## 14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

**U.S. Department of Transportation Ground (49 CFR):**

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

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

**Item No. :** 23691

**Product name:** Loctite(R) 3103 Adhesive Flex UV Curing

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

**WaterTransportation (IMO/IMDG):**

Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: None  
Marine pollutant: 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:** 4-Methoxyphenol (150-76-5).

**CERCLA/SARA Section 302 EHS:** None above reporting de minimus.  
**CERCLA/SARA Section 311/312:** Immediate Health Hazard, Delayed Health Hazard  
**CERCLA/SARA 313:** None.

**California Proposition 65:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**Canada Regulatory Information**

**CEPA DSL/NDSL Status:** Contains one or more components listed on the Non-Domestic Substances list.  
**WHMIS hazard class:** B.3, D.2.B

**16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: 5

**Prepared by:** Kyra Kozak Woods, Product Safety and Regulatory Affairs Specialist

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