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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b>	LOCTITE® 3556™ Indigo™ VISIBLE LIGHT ADHESIVE PART NO. 1072223	<b>Item No. :</b>	1072223 / IDH No. 1072223
<b>Product type:</b>	Acrylics	<b>Region:</b>	United States
<b>Company address:</b>	Henkel Corporation 1001 Trout Brook Crossing Rocky Hill, Connecticut 06067	<b>Contact Information:</b>	Telephone: 860.571.5100 Emergency telephone: 860.571.5100 Internet: www.loctite.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Aliphatic Urethane Acrylate Oligomer Unknown	30-60	None	None	None
Modified acrylamide 2680-03-7	10-30	None	None	0.1 mg/m <sup>3</sup> TWA (skin) 0.025 ppm TWA (skin)
APEX-T Resin Unknown	10-30	None	None	None
Acrylic Ester Unknown	10-30	None	None	None
Methacrylate ester Proprietary	1-5	None	None	None
Diacrylate ester 13048-33-4	1-5	None	None	1 mg/m <sup>3</sup> , dermal sensitizer TWA, (WEEL)
Silica, amorphous, fumed, crystalline-free 112945-52-5	1-5	10 mg/m <sup>3</sup> TWA inhalable 3 mg/m <sup>3</sup> TWA respirable	6 mg/m <sup>3</sup> TWA	None
Photoinitiator Proprietary	1-5	None	None	None

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**Physical state:** Liquid  
**Color:** Pale yellow  
**Odor:** Mild

#### HMIS:

**HEALTH:** 2\*  
**FLAMMABILITY:** 2  
**PHYSICAL HAZARD:** 1  
**Personal Protection:** See Section 8

**WARNING:** COMBUSTIBLE LIQUID AND VAPOR.  
HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED.  
DO NOT SPRAY. DO NOT HEAT.  
CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION  
MAY CAUSE ALLERGIC SKIN REACTION.

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

### Potential Health Effects

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<b>Inhalation:</b>	Modified acrylamide is harmful if inhaled. Vapors and mists will irritate the respiratory tract and nasal passages. Headache. Nausea. DO NOT heat or spray as this increases the inhalation hazard.
<b>Skin contact:</b>	Modified acrylamide may be absorbed through skin in harmful amounts. Toxic. May cause allergic skin reaction. May be harmful if absorbed through skin. Irritating to skin. Redness. Swelling.
<b>Eye contact:</b>	Contact with eyes will cause irritation.
<b>Ingestion:</b>	Modified acrylamide is harmful if swallowed. Toxic. Harmful if swallowed.

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

**See Section 11 for additional toxicological information.**

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If symptoms develop and persist, get immediate medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. Get immediate medical attention if symptoms occur.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
<b>Ingestion:</b>	Do not induce vomiting. Keep individual calm. Get medical attention immediately.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	89.5°C (192.2°F)    Pensky Martens closed cup
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits-lower %:</b>	Not available
<b>Flammable/Explosive limits-upper %:</b>	Not available
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Special fire fighting procedures:</b>	None
<b>Unusual fire or explosion hazards:</b>	None
<b>Hazardous combustion products:</b>	Oxides of carbon. Oxides of nitrogen. Irritating organic vapors.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Prevent product from entering drains or open waters.
<b>Clean-up methods:</b>	Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent. Store in a partly filled, closed container until disposal.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. DO NOT heat or spray. Use only with adequate ventilation. Refer to Section 8.
<b>Storage:</b>	For safe storage, store at or below 26°C (80°F). Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
<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>	Exposure limits have not been established for modified acrylamide. Application of this product requires the use of a NIOSH approved respirator and impermeable protective clothing when engineering controls (e.g. local exhaust ventilation, negative pressure spray booth) are not sufficient to prevent inhalation or skin contact, for instance when product is heated and/or sprayed.
<b>Respiratory protection:</b>	When engineering controls are not sufficient to prevent inhalation, the use of a NIOSH approved respirator is required. The use of a self contained breathing apparatus (SCBA) is required since the occupational exposure limit for modified acrylamide is unknown.
<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. In a splash hazard environment, chemical goggles should be used in combination with a full face shield.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Pale yellow
<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 149°C (300°F)
<b>Melting point/range:</b>	Not available
<b>Specific gravity:</b>	1.0856
<b>Vapor density:</b>	Not determined
<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>	0.41%; 4.45 grams/liter

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of storage and use.
<b>Hazardous polymerization:</b>	May occur.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Oxides of nitrogen. Irritating organic vapors.
<b>Incompatibility:</b>	Acids and bases. Reducing agents. Oxidizing agents. Copper. Alkalis. Amines. Other polymerization initiators. Peroxides. Free radical initiators.
<b>Conditions to avoid:</b>	Heat, flames, sparks and other sources of ignition. Do not heat above 26°C (80°F).

## 11. TOXICOLOGICAL INFORMATION

<b>Product toxicity data:</b>	Modified acrylamide: LD50 (oral, rat) 316 mg/kg LD50 (dermal, rabbit) 518 mg/kg LC50 (vapor, 1hour, rat) greater than 776 ppm
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### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Aliphatic Urethane Acrylate Oligomer Unknown	No	No	No
Modified acrylamide 2680-03-7	No	No	No
APEX-T Resin Unknown	No	No	No
Acrylic Ester Unknown	No	No	No
Methacrylate ester Proprietary	No	No	No
Diacrylate ester 13048-33-4	No	No	No
Silica, amorphous, fumed, crystalline-free 112945-52-5	No	No	No
Photoinitiator Proprietary	No	No	No

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

Hazardous components	Health Effects/Target Organs
Aliphatic Urethane Acrylate Oligomer Unknown	No data
Modified acrylamide 2680-03-7	Less weight gain and food intake., Mutagen, Kidney, Irritant, Eyes
APEX-T Resin Unknown	No data
Acrylic Ester Unknown	No data
Methacrylate ester Proprietary	Allergen, Irritant
Diacrylate ester 13048-33-4	Allergen, Irritant
Silica, amorphous, fumed, crystalline-free 112945-52-5	Nuisance dust
Photoinitiator Proprietary	No Target Organs

## 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: Unrestricted  
Hazard class or division: None  
Identification number: None  
Packing group: None

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

Proper shipping name:	Unrestricted
Hazard class or division:	None
Identification number:	None
Packing group:	None

**WaterTransportation (IMO/IMDG):**

Proper shipping name:	Unrestricted
Hazard class or division:	None
Identification number:	None
Packing group:	None
Marine pollutant:	None

**15. REGULATORY INFORMATION****United States Regulatory Information**

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12 (b) Export Notification:</b>	None.

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

<b>California Proposition 65:</b>	This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.
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**Canada Regulatory Information**

<b>CEPA DSL/NDL Status:</b>	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.
<b>WHMIS hazard class:</b>	B.3, D.1.B, D.2.B

**16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: First issue.

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