



Revision Number: 002.1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LOCTITE® 3556™ Indigo™ VISIBLE	IDH number:	1072223
	LIGHT ADHESIVE PART NO. 1072223		
Product type:	Acrylics	Item number:	1072223
		Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: 860.571.5100		
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		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Liquid	HEALTH:	*2
Color:	Pale yellow	FLAMMABILITY:	2
Odor:	Mild	PHYSICAL HAZARD:	1
		Personal Protection:	See MSDS 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, Ingestion

Potential Health Effects

Inhalation: Modified acrylamide is harmful if inhaled. Causes respiratory tract irritation. Vapors and mists will irritate nose and throat and possibly eyes. Headache. Nausea. DO NOT heat or spray as this increases the inhalation hazard.

Skin contact: Modified acrylamide may be absorbed through skin in harmful amounts. Toxic. May cause allergic skin reaction. Causes skin irritation.

Eye contact: Contact with eyes will cause irritation.

Ingestion: Modified acrylamide is harmful if swallowed. Toxic.

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

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Aliphatic urethane acrylate oligomer	Unknown	30 - 60
N,N-Dimethylacrylamide	2680-03-7	10 - 30
Resin	Proprietary	10 - 30
Acrylic ester	Unknown	10 - 30
Methacrylate ester	Proprietary	1 - 5

1,6-Hexanediol diacrylate	13048-33-4	1 - 5
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Photoinitiator	Proprietary	1 - 5
Ethylene glycol	107-21-1	0.1 - 1

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:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. If symptoms develop and persist, get medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.
Ingestion:	Keep individual calm. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	89.5 °C (193.1 °F)
Autoignition temperature:	Not available.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Extinguishing media:	Foam, dry chemical or carbon dioxide. Do not use high volume water jet.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.
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. Irritating organic vapours. Toxic fumes. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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.
Clean-up methods:	Remove all sources of ignition. Ensure adequate ventilation. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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. DO NOT heat or spray. Refer to Section 8.

Storage: For safe storage, store at or below 26 °C (78.8 °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 contact Henkel Customer Service at (800) 243-4874.

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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Aliphatic urethane acrylate oligomer	None	None	None	None
N,N-Dimethylacrylamide	None	None	None	0.1 mg/m ³ TWA (Skin) 0.025 ppm TWA (Skin)
Resin	None	None	None	None
Acrylic ester	None	None	None	None
Methacrylate ester	None	None	None	None
1,6-Hexanediol diacrylate	None	None	0.11 ppm (1 mg/m ³) TWA (Skin sensitizer)	None
Silica, amorphous, fumed, crystal-free	10 mg/m ³ TWA Inhalable dust. 3 mg/m ³ TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m ³ TWA	None	None
Photoinitiator	None	None	None	None
Ethylene glycol	100 mg/m ³ Ceiling Aerosol.	None	None	None

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s). If this material is handled at elevated temperature or under mist forming conditions, a NIOSH approved respirator must be used.

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 impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Pale yellow
Odor:	Mild
Odor threshold:	Not available.
pH:	Not applicable
Vapor pressure:	< 5 mm hg (20 °C (68°F))
Boiling point/range:	> 149 °C (> 300.2 °F)
Melting point/ range:	Not available.
Specific gravity:	1.0856
Vapor density:	Not determined

Flash point: 89.5 °C (193.1 °F)
 Flammable/Explosive limits - lower: Not available.
 Flammable/Explosive limits - upper: Not available.
 Autoignition temperature: Not available.
 Evaporation rate: Not available.
 Solubility in water: Slight
 Partition coefficient (n-octanol/water): Not available.
 VOC content: 0.41 %; 4.45 g/l

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: May occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.

Incompatible materials: Acids and bases. Reducing agents. Oxidizing agents. Alkalis. Amines. Other polymerization initiators. Peroxides. Free radical initiators. Oxygen scavengers. Inert gases. Heavy metals. Acids and bases. Reducing agents. Oxidizing agents. Alkalis. Amines. Other polymerization initiators. Peroxides. Free radical initiators. Oxygen scavengers. Inert gases. Heavy metals.

Conditions to avoid: Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. Protect from direct sunlight. Avoid temperatures above 26°C (80°F). Do not freeze. UV light. Inert gas blanketing.

11. TOXICOLOGICAL INFORMATION

Product toxicity data: Modified acrylamide: LD50 (oral, rat) 316 mg/kg LD50 (dermal, rabbit) 518 mg/kg LC50 (vapor, 1hour, rat) greater than 776 ppm.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Aliphatic urethane acrylate oligomer	No	No	No
N,N-Dimethylacrylamide	No	No	No
Resin	No	No	No
Acrylic ester	No	No	No
Methacrylate ester	No	No	No
1,6-Hexanediol diacrylate	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Photoinitiator	No	No	No
Ethylene glycol	No	No	No

Hazardous components	Health Effects/Target Organs
Aliphatic urethane acrylate oligomer	Allergen, Irritant
N,N-Dimethylacrylamide	Irritant, Eyes, Mutagen, Kidney, Less weight gain and food intake.
Resin	No Records
Acrylic ester	No Data
Methacrylate ester	Irritant, Allergen
1,6-Hexanediol diacrylate	Irritant, Allergen
Silica, amorphous, fumed, crystal-free	Nuisance dust
Photoinitiator	No Target Organs
Ethylene glycol	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic

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

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

Proper shipping name: Combustible liquid, n.o.s. (Modified Acrylamide)
Hazard class or division: Combustible Liquid
Identification number: NA 1993
Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: 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: None above reporting de minimis

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire

CERCLA/SARA Section 313: 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

CEPA DSL/NDL 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.

WHMIS hazard class: B.3, D.1.B, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 16

Prepared by: Diane Annis, Sr. Regulatory Affairs Specialist

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