



Revision Number: 007.0

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1. IDENTIFICATION

Product name:	LOCTITE AA 3974 LIGHT CURE ADHESIVE known as LOCTITE® 3974™ LIGHT CURE ADHE	IDH number:	1135735
Product type/Recommended use:	Light Curing Adhesive	Item number:	1135735
Restriction of Use:	None identified	Region:	United States
Company address:	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	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 1-800-424-9300 (toll free) or 1-703-527-3887 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

DANGER: DO NOT SPRAY. DO NOT HEAT.
 H227 - COMBUSTIBLE LIQUID.
 H302 - HARMFUL IF SWALLOWED.
 H315 - CAUSES SKIN IRRITATION.
 H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
 H318 - CAUSES SERIOUS EYE DAMAGE.
 H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
ACUTE TOXICITY ORAL	4
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2

PICTOGRAM(S)



Precautionary Statements

Prevention:	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking. P261 - Avoid breathing mist/vapours. P264 - Wash affected area thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves, clothing, eye and face protection.
Response:	P301+P312+P330 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

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Storage: P302+P352 - IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 - IF exposed or concerned: Get medical attention.
 P333+P313 - If skin irritation or rash occurs: Get medical attention.
 P362+P364 - Take off contaminated clothing and wash it before reuse.
 P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
Disposal: P403 - Store in a well-ventilated place.
 P405 - Store locked up.
 P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards Not available.

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	Weight %*
Isobornyl acrylate	5888-33-5	10 - 30
Acrylate ester	7328-17-8	10 - 30
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	63225-53-6	10 - 30
N,N-Dimethylacrylamide	2680-03-7	5 - 10
2-Hydroxyethyl methacrylate	868-77-9	1 - 5
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	1 - 5
Dodecyl acrylate	2156-97-0	1 - 5
Acrylic acid, reaction products with dipentaerythritol	1384855-91-7	1 - 5
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	68909-20-6	1 - 5

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, 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 immediate medical attention.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Keep individual calm. Get immediate medical attention.
Most important symptoms and effects (acute and delayed):	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
Indication of any immediate medical attention / special treatment needed:	Not available.

5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide.

Improper extinguishing agents:	Not available.
Special firefighting procedures:	Not available.
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.

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:	Remove all sources of ignition. Do not allow product to enter sewer or waterways.
Clean-up methods:	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:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. DO NOT heat or spray. Do not taste or swallow. Use only with adequate ventilation. 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. Protect from direct sunlight. Maintain head space in storage containers to support oxygen requirements of the inhibitor(s).

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

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
N,N-Dimethylacrylamide	None	None	None	0.1 mg/m3 TWA (Skin) 0.025 ppm TWA (Skin)
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	3 mg/m3 TWA Respirable fraction. 10 mg/m3 TWA Inhalable dust.	6 mg/m3 TWA	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 temperatures or under mist forming conditions, without engineering controls, 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.
Skin protection:	Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Translucent, Colourless / Colorless, Light yellow
Odor:	Mild
Odor threshold:	Not available.
pH:	Not applicable, Product is non-soluble (in water).
Vapor pressure:	< 5 mm hg (20 °C (68°F))
Boiling point/range:	> 93 °C (> 199.4 °F) Polymerization can occur at greater than 150°C (302°F).
Melting point/ range:	Not applicable, Product is a liquid
Density/Relative density:	1.1062
Relative vapor density:	> 1 20 °C
Flash point:	81.5 °C (178.7 °F) Pensky Martens closed cup
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	The product is not flammable.
Evaporation rate:	Not available.
Solubility:	Insoluble Water
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	1.48 %; 16.37 g/l
Dynamic viscosity:	Not available.
Kinematic viscosity:	70 - 195 mm ² /s
Particle characteristics:	Not applicable, Product is a liquid
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	May occur with excessive aging, excessive heat, polymerization catalyst, inhibitor depletion, direct sunlight and under oxygen-free atmospheres.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Aldehydes. Irritating organic vapours.
Incompatible materials:	Oxidizing agents. Reducing agents. Acids and bases. Amines. Peroxides. Free radical initiators. Other polymerization initiators. Inert gases. Oxygen scavengers. Reactive metals.
Reactivity:	Not available.
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition. Avoid temperatures above 26°C (80°F). Protect from direct sunlight. Loss of polymerization inhibitor. Loss of dissolved air.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation. Modified acrylamide is harmful if inhaled. DO NOT heat or spray as this increases the inhalation hazard.
Skin contact:	Causes skin irritation. May cause allergic skin reaction. Modified acrylamide may be absorbed through skin in harmful amounts.
Eye contact:	Causes serious eye damage.
Ingestion:	Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed. Modified acrylamide is harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s
Isobornyl acrylate	None
Acrylate ester	None
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	None
N,N-Dimethylacrylamide	None
2-Hydroxyethyl methacrylate	Oral LD50 (Rat) = 11.2 g/kg Oral LD50 (Rat) = 5,050 mg/kg
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	None
Dodecyl acrylate	None
Acrylic acid, reaction products with dipentaerythritol	None
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Isobornyl acrylate	Irritant	Allergen	
Acrylate ester	Irritant	Allergen	
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	Irritant	Allergen	
N,N-Dimethylacrylamide	Irritant		Eyes Mutagen Kidney
2-Hydroxyethyl methacrylate	Irritant	Allergen	
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
Dodecyl acrylate	Irritant	Allergen	
Acrylic acid, reaction products with dipentaerythritol			
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica			

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Isobornyl acrylate	No	No	No
Acrylate ester	No	No	No
2-[[[(Butylamino)carbonyl]oxy]ethyl acrylate	No	No	No
N,N-Dimethylacrylamide	No	No	No
2-Hydroxyethyl methacrylate	No	No	No
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No	No	No
Dodecyl acrylate	No	No	No
Acrylic acid, reaction products with dipentaerythritol	No	No	No
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	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.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

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

Proper shipping name: Combustible liquid, n.o.s. (N,N-Dimethylacrylamide)
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. (Isobornyl acrylate)
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. (Isobornyl acrylate)
Hazard class or division: 9
Identification number: UN 3082
Packing group: III
Marine pollutant: Isobornyl acrylate

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) 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: Please refer to the GHS classification in Section 2
CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Acrylate ester (CAS# 7328-17-8).
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: 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: 2,3,7,8,10,11,13,15

Prepared by: Product Safety and Regulatory Affairs

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