Material Safety Data Sheet







1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type:

Company address:

Henkel Corporation

Rocky Hill, Connecticut 06067

One Henkel Way

LOCTITE® 3974™ LIGHT CURE ADHESIVE PART NO. 1135732 Ultraviolet adhesive IDH number:

1135732

Item number:1135732Region:United StatesContact information:Telephone:860.571.5100MEDICAL EMERGENCY Phone:Poison Control Center1-877-671-4608 (toll free)or 1-303-592-1711TRANSPORT EMERGENCY Phone:CHEMTREC1-800-424-9300 (toll free)or 1-703-527-3887Internet:www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW					
				HMIS:	
Physical s	state:	Liquid		HEALTH:	*2
Color:			t, Colorless, Pale yellow	FLAMMABILITY:	2
Odor:		Mild		PHYSICAL HAZARD:	1
				Personal Protection:	See MSDS Section 8
\	WARNING:	CO	MBUSTIBLE LIQUID A	ND VAPOR.	
		HA	RMFUL IF SWALLOW	ED, ABSORBED THROU	GH SKIN OR INHALED.
			NOT SPRAY, DO NO	-	
MAY CAUSE ALLERGIC SKIN REACTION.					
		CA	USES EYE, SKIN AND	RESPIRATORY TRACT	IRRITATION.
Relevant r	outes of exposur	e:	Skin, Inhalation, Eyes		
Potential I	Health Effects				
	Inhalation:			nful if inhaled. DO NOT heat or s	
			•	nay cause headaches, nausea,	
			irritation. Inhalation of mist	or spray may cause irritation of t	he respiratory tract and nasal
			passages.		
	Skin contact:			e absorbed through skin in harm	ful amounts. Toxic. May cause
			allergic skin reaction. Irritat		
	Eye contact:		Contact with eyes will caus		
	Ingestion:		Modified acrylamide is harr	nful if swallowed. Toxic.	
Existing conditions aggravated by		ated by	Eve skin and respiratory of	lisorders. Immune system disord	lers
exposure:		alou by			
-					
			This material is considered 1910.1200).	hazardous by the OSHA Hazard	d Communication Standard (29 CFR

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%	
Urethane Polymer	Proprietary	10 - 30	
Acrylate monomer	Proprietary	10 - 30	
Acrylated carbamate	Proprietary	10 - 30	
Acrylate ester	7328-17-8	10 - 30	
N,N-Dimethylacrylamide	2680-03-7	5 - 10	
2-Hydroxyethyl methacrylate	868-77-9	1 - 5	
Photoinitiator	Proprietary	1 - 5	
Multifunctional acrylate ester	Proprietary	1 - 5	
Acrylate ester	Proprietary	1 - 5	
Silica, amorphous, treated	68909-20-6	1 - 5	

4. FIRST AID MEASURES

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.	
5. FIRE FIGHTING MEASURES		

Flash point:	81.5 °C (178.7 °F) Pensky 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 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:	Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. 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.			

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.

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.

ne None ne None ne None ne None	None None None None	(Skin) 0.025 ppm TWA
ne None ne None	None None	None None 0.1 mg/m3 TWA (Skin) 0.025 ppm TWA
ne None	None	None 0.1 mg/m3 TWA (Skin) 0.025 ppm TWA
		0.1 mg/m3 TWA (Skin) 0.025 ppm TWA
ne None	None	(Škin) 0.025 ppm TWA
		(Skin)
ne None	None	3 ppm Ceiling
ne None	None	None
ne None	None	None
ne None	None	None
n3 TWA le dust. 6 mg/m3 T	WA None	None
r	ne None ne None ne None 13 TWA e dust. 6 mg/m3 T	ne None None ne None None 13 TWA 6 mg/m3 TWA None

Respiratory protection:

Eye/face protection:

Skin protection:

ufficient to control airborne contamination below occupational exposure limits.

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.

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

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

< 5 mm hg (20 °C (68°F))

> 93 °C (> 199.4 °F)

Translucent, Colorless, Pale yellow

81.5 °C (178.7 °F) Pensky Martens closed cup

Liquid

Mild

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

1.1062

> 1

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: **Boiling point/range:** Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature:

Product name: LOCTITE® 3974™ LIGHT CURE ADHESIVE PART NO. 1135732 Page 3 of 6

Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): **VOC content:**

Not available. Slight Not available. 1.48 %; 16.37 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. Aldehydes. Irritating organic vapours.
Incompatible materials:	Acids. Bases. Strong oxidizing agents. Reducing agents. Free radical initiators. Other polymerization initiators.
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition. Avoid temperatures above 26°C (80°F).

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)	
Urethane Polymer	No	No	No	
Acrylate monomer	No	No	No	
Acrylated carbamate	No	No	No	
Acrylate ester	No	No	No	
N,N-Dimethylacrylamide	No	No	No	
2-Hydroxyethyl methacrylate	No	No	No	
Photoinitiator	No	No	No	
Multifunctional acrylate ester	No	No	No	
Acrylate ester	No	No	No	
Silica, amorphous, treated	No	No	No	
Hazardous components		Health Effects/Targe	t Organs	
Urethane Polymer		No Records		
Acrylate monomer		Irritant, Allergen		
Acrylated carbamate		Irritant, Allergen		
Acrylate ester		Irritant, Allergen		
N,N-Dimethylacrylamide		Irritant, Eyes, Mutagen, Kidney, Less weight gain and food intake.		
2-Hydroxyethyl methacrylate		Irritant, Allergen		

2-Hydroxyethyl methacrylate	Irritant, Allergen
Photoinitiator	No Records
Multifunctional acrylate ester	Irritant, Allergen
Acrylate ester	Irritant, Allergen
Silica, amorphous, treated	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. Hazardous waste number: Not a RCRA hazardous waste. **14. TRANSPORT INFORMATION** The shipping classification in this section are for bulk packaging only. Shipping classification may be different for non-bulk packaging as exceptions may apply. Refer to shipping documents for package specific transportation classification. 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: ш International Air Transportation (ICAO/IATA) Not regulated Proper shipping name: 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 minimus CERCLA/SARA Section 302 EHS: None above reporting de minimis CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire CERCLA/SARA 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. WHMIS hazard class: B.3, D.1.B, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1 and 16

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