Safety Data Sheet



Revision Number: 006.1

Issue date: 04/08/2019

1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name:

Adhesiv

Product type/use: **Restriction of Use:** Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

LOCTITE AA 349 UV GLASS BONDER known as 349 Impruv® Light Cure Ultraviolet adhesive None identified

Item number: 34990 Region: **United States** 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 Internet: www.henkelna.com

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2. HAZARDS IDENTIFICATION

	EMERGENCY OVERVIEW
DANGER:	CAUSES SKIN IRRITATION.
	MAY CAUSE AN ALLERGIC SKIN REACTION.
	CAUSES SERIOUS EYE DAMAGE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1

PICTOGRAM(S)

Precautionary Statements

Prevention:	Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eve protection, and face protection.
Response:	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing.
Storage:	Not prescribed
Disposal:	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

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	Percentage*	
Cyclohexanol, 4,4'-(1- methylethylidene)bis-, polymer with 1,3- diisocyanatomethylbenzene and tetrahydrofuran, propylene glycol monome	2243075-64-9	30 - 60	
Isobornyl methacrylate	7534-94-3	10 - 30	
Hydroxyalkyl methacrylate	27813-02-1	10 - 30	
Lauryl methacrylate	142-90-5	5 - 10	
Acrylic acid	79-10-7	1 - 5	
Tetradecyl methacrylate	2549-53-3	1 - 5	
Gamma-glycidoxypropyl trimethoxysilane	2530-83-8	1 - 5	
Hexadecyl methacrylate	2495-27-4	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			
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get 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:	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. Never give anything by mouth to an unconscious person. Keep individual calm. Get medical attention.		
Symptoms:	See Section 11.		
5. FIRE FIGHTING MEASURES			
Extinguishing media:	Foam, dry chemical or carbon dioxide.		
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 cause rapid evolution of heat and increase in pressure that could result in violent rupture of sealed storage vessels or containers.		
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Formaldehyde. Irritating organic vapours.		

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:	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. For operations where eye or face contact could occur, provide safety shower and eyewash fountain.

Storage:

For safe storage, store at or below 38 $^{\circ}$ C (100.4 $^{\circ}$ F) Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

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
Cyclohexanol, 4,4'-(1- methylethylidene)bis-, polymer with 1,3- diisocyanatomethylbenzene and tetrahydrofuran, propylene glycol monome	None	None	None	None
Isobornyl methacrylate	None	None	None	None
Hydroxyalkyl methacrylate	None	None	None	1 ppm TWA 3 ppm STEL
Lauryl methacrylate	None	None	None	50 ppm
Acrylic acid	2 ppm TWA (SKIN)	None	None	1 ppm TWA 3 ppm STEL (SKIN)
Tetradecyl methacrylate	None	None	None	50 ppm TWA 75 ppm STEL
Gamma-glycidoxypropyl trimethoxysilane	None	None	None	None
Hexadecyl methacrylate	None	None	None	None

Engineering controls:

Respiratory protection:

Eye/face protection:

Skin protection:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid

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: Flammability:

Clear Sharp, Irritating Not available. Not applicable < 10 mm hg (27 °C (80.6 °F))> 149 °C (> 300.2 °F)Not available. 1.02Not available. > 93.3 °C (> 199.94 °F) Tagliabue closed cup Not available. Not available. Not available. Not available. Not applicable Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature: Not available. Slight Not available. 1.82 %; 17.37 g/l (ASTM D5403) Not available. Not available.

	10. STABILITY AND REACTIVITY	
Stability:	Stable under normal conditions of storage and use.	
Hazardous reactions:	None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.	
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Silicon dioxide. Formaldehyde. Irritating organic vapours.	
Incompatible materials:	Strong oxidizing agents. Reducing agents. Acids. Bases. Heavy metals. Free radical initiators. Copper alloys. Inert gases. Oxygen scavengers. Alkalis.	
Reactivity:	Not available.	
Conditions to avoid:	Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. Protect from direct sunlight. Freezing conditions. UV light. Inert gas blanketing. Avoid moisture.	
11. TOXICOLOGICAL INFORMATION		

Relevant routes of exposure:

Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Irritates the nose, throat and respiratory system.		
Causes skin irritation. May cause allergic skin reaction.		
Causes serious eye damage.		
May cause gastrointestinal tract irritation if swallowed.		

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Cyclohexanol, 4,4'-(1- methylethylidene)bis-, polymer with 1,3- diisocyanatomethylbenzene and tetrahydrofuran, propylene glycol monome	None	Irritant, Allergen	
Isobornyl methacrylate	None	Irritant, Allergen	
Hydroxyalkyl methacrylate	None	Irritant, Allergen	
Lauryl methacrylate	Oral LD50 (Rat) = > 5.0 g/kg Oral LD50 (Mouse) = > 87,250 mg/kg	Irritant, Allergen	
Acrylic acid	Oral LD50 (Rat) = 33.5 mg/kg Oral LD50 (Mouse) = 2,400 mg/kg Oral LD50 (Rat) = 2.5 g/kg Oral LD50 (Rat) = 193 mg/kg Oral LD50 (Rat) = 1,250 mg/kg	Allergen, Corrosive, Irritant, Kidney, Liver	
Tetradecyl methacrylate	None	Irritant, Allergen	
Gamma-glycidoxypropyl trimethoxysilane	None	Allergen, Irritant	
Hexadecyl methacrylate	None	Irritant, Allergen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Cyclohexanol, 4,4'-(1- methylethylidene)bis-, polymer with 1,3- diisocyanatomethylbenzene and tetrahydrofuran, propylene glycol monome	No	No	No
Isobornyl methacrylate	No	No	No
Hydroxyalkyl methacrylate	No	No	No
Lauryl methacrylate	No	No	No
Acrylic acid	No	No	No
Tetradecyl methacrylate	No	No	No
Gamma-glycidoxypropyl trimethoxysilane	No	No	No
Hexadecyl methacrylate	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.

Hazardous waste number:

Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

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)

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

Water Transportation (IMO/IMDG)

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

15. REGULATORY INFORMATION

United States Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
Canada Regulatory Information	
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.
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis. Immediate Health, Delayed Health 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). Acrylic acid (CAS# 79-10-7).
TSCA 12 (b) Export Notification:	None above reporting de minimis
TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3

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