Material Safety Data Sheet





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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:Light Cure Adhesive UV CureIDH number:233178Product type:Ultraviolet adhesiveItem number:28367Region:United States

Company address:Contact information:Henkel CorporationTelephone: 860.571.5100

One Henkel Way Emergency telephone: 860.571.5100 Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state:LiquidHEALTH:*2Color:Transparent, to, HazyFLAMMABILITY:1Odor:SharpPHYSICAL HAZARD:1

Personal Protection: See MSDS Section 8

WARNING: CAUSES EYE AND SKIN IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: May cause irritation to nose and throat.

Skin contact: Causes skin irritation. May cause allergic skin reaction. **Eye contact:** Vapors may irritate eyes. Contact with eyes will cause irritation.

Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation if swallowed.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders. Acrylic acid: Respiratory disorders. Lung disease.

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	%
Isobornyl acrylate	5888-33-5	30 - 60
Polyurethane Methacrylate Resin	Proprietary	10 - 30
2-Hydroxyethyl methacrylate	868-77-9	10 - 30
High boiling methacrylate	7534-94-3	5 - 10
Acrylic acid	79-10-7	5 - 10
Photoinitiator	947-19-3	1 - 5
Gamma-glycidoxypropyl trimethoxysilane	2530-83-8	1 - 5
Hydroxyalkyl methacrylate	27813-02-1	1 - 5
Ethylene glycol	107-21-1	0.1 - 1

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.

5. FIRE FIGHTING MEASURES

Flash point: > 93.3 °C (> 199.94 °F) Tagliabue closed cup

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available

Flammable/Explosive limits - upper:

Not available

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 occur at high temperatures resulting in

explosions or rupture of storage containers.

Hazardous combustion products: Oxides of carbon. 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. Remove all sources of ignition. Prevent

contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. Refer to Section 8.

Storage: For safe storage, store at or below 38 °C (100.4 °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
Isobornyl acrylate	None	None	None	None
Polyurethane Methacrylate Resin	None	None	None	None
2-Hydroxyethyl methacrylate	None	None	None	3 ppm Ceiling1
High boiling methacrylate	None	None	None	None
Acrylic acid	2 ppm TWA (SKIN)	None	None	1 ppm TWA 3 ppm STEL (SKIN)
Photoinitiator	None	None	None	None
Gamma-glycidoxypropyl trimethoxysilane	None	None	None	None
Hydroxyalkyl methacrylate	None	None	None	1 ppm TWA 3 ppm STEL
Ethylene glycol	100 mg/m3 Ceiling1 Aerosol.	None	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

imit(s).

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. Butyl rubber gloves. Nitrile gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Color: Transparent, to, Hazy

Odor: Sharp
Odor threshold: Not available
pH: Not applicable

 Vapor pressure:
 < 10 mm hg (27 °C (80.6 °F))</td>

 Boiling point/range:
 > 149 °C (> 300.2 °F)

Melting point/ range:Not availableSpecific gravity:1.031Vapor density:Not available

Flash point: > 93.3 °C (> 199.94 °F) Tagliabue closed cup

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

Not available

Not available

Not available

VOC content: 2.44 %; 25.16 g/l ASTM D5403 Process volatiles

0.46 %; 4.74 g/l (potential) 2.9 %; 29.90 g/l (total)

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 silicon. Formaldehyde. Irritating organic vapours.

Incompatible materials: Strong oxidizing agents. Strong reducing agents. Peroxides. Heavy metals.

Water. Humid air.

Conditions to avoid: Heat, flames, sparks and other sources of ignition. Ultraviolet radiation. Direct

sunlight. Freezing conditions. Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: LD50 (rat) > 5,000 mg/kg (Estimated)

Acute dermal product toxicity: LD50 (rabbit) > 2,000 mg/kg (Estimated)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Isobornyl acrylate	No	No	No
Polyurethane Methacrylate Resin	No	No	No
2-Hydroxyethyl methacrylate	No	No	No
High boiling methacrylate	No	No	No
Acrylic acid	No	No	No
Photoinitiator	No	No	No
Gamma-glycidoxypropyl trimethoxysilane	No	No	No
Hydroxyalkyl methacrylate	No	No	No
Ethylene glycol	No	No	No

Hazardous components	Health Effects/Target Organs	
Isobornyl acrylate	Irritant, Allergen	
Polyurethane Methacrylate Resin	Irritant, Allergen	
2-Hydroxyethyl methacrylate	Irritant, Allergen	
High boiling methacrylate	Irritant, Allergen	
Acrylic acid	Allergen, Corrosive, Irritant, Kidney, Liver	
Photoinitiator	No Records	
Gamma-glycidoxypropyl trimethoxysilane	Irritant, Allergen	
Hydroxyalkyl methacrylate	Irritant, Allergen	
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: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number:Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

Proper shipping name:Not regulatedHazard class or division:NoneIdentification number:NonePacking group:None

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

Identification number:UN 3082Packing group:III

Marine pollutant: Isobornyl acrylate

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 CERCLA/SARA Section 311/312: Imme

CERCLA/SARA 313:

None above reporting de minimus 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).

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

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

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Tricia Voghell, Regulatory Affairs Specialist

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