Material Safety Data Sheet

Henkel Technologies

Revision Date: 11/29/2007 **Issue date:** 11/29/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) 3936 Light Cure Adhesive Medical Device Visible/UV Cure Fluorescent
Item No. : 32304 / IDH No. 312050
Product type: Ultraviolet adhesive
Region: United States
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	%	ACGIH TLV	OSHA PEL	OTHER
Urethane Polymer Proprietary	30-60	None	None	None
Acrylate monomer Proprietary	10-30	None	None	None
Hydroxyalkyl methacrylate 27813-02-1	10-30	None	None	1 ppm TWA; 3 ppm STEL
Substituted silane Proprietary	1-5	None	None	None
Photoinitiator Proprietary	1-5	None	None	None
Trifunctional acrylate ester 15625-89-5	1-5	None	None	1 mg/m³, Skin (WEEL)
Hydroxyethyl acrylate 818-61-1	0.1-1	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Liquid
Color: Clear
Odor: Mild

HEALTH: 2*
FLAMMABILITY: 2
PHYSICAL HAZARD: 1
Personal Protection: See Section 8

WARNING: COMBUSTIBLE LIQUID
MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.
MAY BE HARMFUL IF SWALLOWED OR INHALED.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation: Moderate respiratory tract irritation. Shortness of breath. Coughing.

Skin contact:	May cause allergic skin reaction. May be harmful if absorbed through skin. May cause skin irritation with discomfort or rash.
Eye contact:	Contact with eyes will cause irritation. Moderate eye irritation. Redness. Excess tearing.
Ingestion:	May be harmful if swallowed. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.
Existing conditions aggravated by exposure:	Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin contact:	Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
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. Keep individual calm. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point:	90°C (194°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 fire fighting procedures:	None
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. Oxides of silicon. Irritating organic vapors.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Remove sources of ignition. Prevent product from entering drains or open waters.
Clean-up methods:	Spontaneous hazardous polymerization may occur. Ventilate area. Soak up with inert absorbent. 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.
Storage:	For safe storage, store between 10°C (50°F) and 32°C (90°F). Store away from heat, sparks, flames, or other sources of ignition.
Incompatible products:	Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limts.

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

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves.

Eye/face protection: Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Clear
Odor: Mild
Vapor pressure: Less than 5 mm Hg at 20ºC (68ºF)
pH: Not applicable
Boiling point/range: Greater than 93°C (200°F)
Melting point/range: Not available
Specific gravity: 1.08
Vapor density: Greater than 1
Evaporation rate: Not available
Solubility in water: Slight
Partition coefficient (n-octanol/water): Not available
VOC content: ASTM D5403 Process volatiles 0.46 %, grams/liter; Potential volatiles 1.1 %, grams/liter; Total volatiles 1.56 %, 16.5 grams/liter.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous polymerization: Will not occur.

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

Incompatability: Strong oxidizers. Strong acids. Strong bases. Peroxides. Sulfur. Iron. Copper alloys. Carbon steel. Other polymerization initiators.

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatabilty" (Section 10).

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Urethane Polymer Proprietary	No	No	No
Acrylate monomer Proprietary	No	No	No
Hydroxyalkyl methacrylate 27813-02-1	No	No	No
Substituted silane Proprietary	No	No	No
Photoinitiator Proprietary	No	No	No
Trifunctional acrylate ester 15625-89-5	No	No	No
Hydroxyethyl acrylate 818-61-1	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Urethane Polymer Proprietary	No Records
Acrylate monomer Proprietary	Allergen, Irritant
Hydroxyalkyl methacrylate 27813-02-1	Allergen, Irritant
Substituted silane Proprietary	Allergen, Irritant
Photoinitiator Proprietary	No data
Trifunctional acrylate ester 15625-89-5	Allergen, Irritant
Hydroxyethyl acrylate 818-61-1	Allergen, Central nervous system, Heart, Irritant, Kidney, Liver, Lung, Some evidence of carcinogenicity, Spleen

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.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

Proper shipping name: Combustible liquids, n.o.s. (Hydroxyalkyl Methacrylate)
Hazard class or division: Combustible
Identification number: NA 1993
Packing group: None
Exceptions: Unrestricted (Not more than 450 Liters)

International Air Transportation (ICAO/IATA):

Proper shipping name: Unrestricted
Hazard class or division: None
Identification number: None
Packing group: None

WaterTransportation (IMO/IMDG):

Proper shipping name: Unrestricted
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: 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: 4-Methoxyphenol (150-76-5).

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard, Fire
CERCLA/SARA 313: None.

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

Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances list.
WHMIS hazard class: B.3, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Updated Revision Date Only

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