



Revision Date: 03/08/2007

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite® 3201(tm) Light Cure Adhesive
Product type: Ultraviolet adhesive
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 19727
Region: United States
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Urethane Polymer Proprietary	30-60	None	None	None
Isobornyl acrylate 5888-33-5	30-60	None	None	None
Hydroxyalkyl methacrylate 868-77-9	10-30	None	None	3 ppm (ceiling)
Photoinitiator 24650-42-8	1-5	None	None	None
gamma-Glycidoxypropyl trimethoxysilane Proprietary	1-5	None	None	None
Silica, amorphous, fumed, crystalline-free 112945-52-5	1-5	10 mg/m ³ TWA inhalable 3 mg/m ³ TWA respirable	6 mg/m ³ TWA	None
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide 75980-60-8	1-5	None	None	None
Hydroxyethyl acrylate 818-61-1	0.1-1	None	None	None

3. HAZARDS IDENTIFICATION

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EMERGENCY OVERVIEW

HMIS:

Physical state: Liquid
Color: Pale yellow
Odor: Mild

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

WARNING: CAUSES EYE IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
MAY CAUSE SKIN IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: May cause respiratory tract irritation.
Skin contact: May cause skin irritation. May cause allergic skin reaction.
Eye contact: Contact with eyes will cause irritation.
Ingestion: May be harmful if swallowed.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders. Systemic diseases.

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: Greater than 93°C (200°F) Tagliabue 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: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

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 sulfur. Oxides of phosphorus. Irritating organic vapors.

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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:	Keep away from heat, spark and flame. Avoid contact with eyes, skin and clothing. Use only in area provided with appropriate exhaust ventilation.
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:	Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
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:	Pale yellow
Odor:	Mild
Vapor pressure:	Less than 5 mm Hg at 20°C (68°F)
pH:	Not applicable
Boiling point/range:	Greater than 93°C (200°F)
Melting point/range:	Not available
Specific gravity:	1.09
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 1.09 %, 11.881 grams/liter; Potential volatiles 0.85 %, 9.265 grams/liter; Total volatiles 1.94 %, 21.146 grams/liter.

10. STABILITY AND REACTIVITY

Stability:	Unstable.
Hazardous polymerization:	May occur.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Oxides of phosphorous. Irritating organic vapors. Dimethylamine.
Incompatibility:	Strong oxidizers. Strong acids. Strong bases.
Conditions to avoid:	See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

11. TOXICOLOGICAL INFORMATION

Product toxicity data:

Acute oral LD50 greater than 5000mg/kg (rat)(estimated). Acute dermal LD50 greater than 2000 mg/kg (rabbit) (estimated).

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Urethane Polymer Proprietary	No	No	No
Isobornyl acrylate 5888-33-5	No	No	No
Hydroxyalkyl methacrylate 868-77-9	No	No	No
Photoinitiator 24650-42-8	No	No	No
gamma-Glycidoxypropyl trimethoxysilane Proprietary	No	No	No
Silica, amorphous, fumed, crystalline-free 112945-52-5	No	No	No
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide 75980-60-8	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
Isobornyl acrylate 5888-33-5	Allergen, Irritant
Hydroxyalkyl methacrylate 868-77-9	Allergen, Irritant
Photoinitiator 24650-42-8	No Target Organs
gamma-Glycidoxypropyl trimethoxysilane Proprietary	Allergen, Irritant
Silica, amorphous, fumed, crystalline-free 112945-52-5	Nuisance dust
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide 75980-60-8	No data
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: 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/MDG):

Proper shipping name: Not regulated
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: None.

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

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

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

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 15

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