# **Material Safety Data Sheet**





Revision Number: 004.0 Issue date: 04/17/2009

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 3201(TM) Light Cure Adhesive Medical IDH number: 237036

Device Adhesive
Ultraviolet adhesive Item number: 19727

Product type: Ultraviolet adhesive Item number: 19727
Region: United States

 Company address:
 Contact information:

 Henkel Corporation
 Telephone: 860.571.5100

 1001 Trout Brook Crossing
 Emergency telephone: 860.571.5100

1001 Trout Brook Crossing Emergency telephone: 860.571.5100 Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

#### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

Physical state:LiquidHEALTH:\*2Color:Pale yellowFLAMMABILITY:1Odor:MildPHYSICAL HAZARD:1

Personal Protection: See MSDS Section 8

WARNING: CAUSES EYE IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED.

MAY CAUSE SKIN AND RESPIRATORY TRACT 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.

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	%
Urethane Polymer	Proprietary	30 - 60
Isobornyl acrylate	5888-33-5	30 - 60
2-Hydroxyethyl methacrylate	868-77-9	10 - 30
Photoinitiator	24650-42-8	1 - 5
Substituted silane	Proprietary	1 - 5
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	1 - 5
2-Hydroxyethyl acrylate	818-61-1	0.1 - 1

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#### 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Wash with soap and water. Remove contaminated clothing and footwear.

Wash clothing before reuse. If symptoms develop and persist, get medical

attention.

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. Never give anything by mouth

to an unconscious person. 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

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**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.

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 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: Remove all sources of ignition. Do not allow product to enter sewer or

waterways.

Clean-up methods: Spontaneous hazardous polymerization may occur. Ventilate area. 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: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of

this product. Keep container closed. Use only in area provided with appropriate exhaust ventilation. Do not taste or swallow. Wash thoroughly

after handling. Keep away from heat, spark and flame.

Storage: For safe storage, store between 10 °C (50°F) and 32 °C (89.6 °F)

Store away from heat, sparks, flames, or other sources of ignition.

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
Urethane Polymer	None	None	None	None
Isobornyl acrylate	None	None	None	None
2-Hydroxyethyl methacrylate	None	None	None	3 ppm Ceiling
Photoinitiator	None	None	None	None
Substituted silane	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction. 6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	None	None	None	None
2-Hvdroxvethyl acrylate	None	None	None	None

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).

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

**Skin protection:**Use impermeable gloves and protective clothing as necessary to prevent skin

contact. Neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:Pale yellowOdor:MildOdor threshold:Not availablepH:Not applicable

Vapor pressure: <5 mm hg (20 °C (68°F))

Boiling point/range: >93 °C (>199.4 °F)

Melting point/ range: Not available

Specific gravity: 1.09
Vapor density: >1

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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

Slight

Not available

VOC content: 1.09 %; 11.88 g/l (process)

0.85 %; 9.27 g/l (potential) 1.94 %; 21.15 g/l (total)

(ASTM D5403)

## 10. STABILITY AND REACTIVITY

Stability: Unstable.

Hazardous reactions: May occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Oxides of phosphorus.

Irritating organic vapours. Dimethylamine.

Incompatible materials: Strong oxidizing agents. Strong acids. Strong bases.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials. See

"Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	
Urethane Polymer	No	No	No	
Isobornyl acrylate	No	No	No	
2-Hydroxyethyl methacrylate	No	No	No	
Photoinitiator	No	No	No	
Substituted silane	No	No	No	
Silica, amorphous, fumed, crystal-free	No	No	No	
Diphenyl-2,4,6-trimethylbenzoyl	No	No	No	
phosphine oxide	140	140	140	
2-Hydroxyethyl acrylate	No	No	No	

Hazardous components	Health Effects/Target Organs		
Urethane Polymer	No Records		
Isobornyl acrylate	Irritant, Allergen		
2-Hydroxyethyl methacrylate	Irritant, Allergen		
Photoinitiator	No Target Organs		
Substituted silane	Irritant, Allergen		
Silica, amorphous, fumed, crystal-free	Nuisance dust		
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	No Records		
2-Hydroxyethyl acrylate	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.

Hazardous waste number: Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

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

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#### International Air Transportation (ICAO/IATA)

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

#### Water Transportation (IMO/IMDG)

Proper shipping name:Not regulatedHazard class or division:NoneIdentification number:NonePacking 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:
CERCLA/SARA Section 311/312:
CERCLA/SARA 313:

None above reporting de minimus
None above reporting de minimus

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

Canada Regulatory Information

IDH number: 237036

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:

#### **16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: 3, 8

D.2.B

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