



Revision Number: 004.2 Issue date: 02/05/2010

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 3301 Medical Device Adhesive Light IDH number:

Cure PVC Bonding

Product type: Ultraviolet adhesive Item number: 19734
Region: 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:
 Liquid
 HEALTH:
 \*2

 Color:
 Pale yellow
 FLAMMABILITY:
 2

 Odor:
 Mild
 PHYSICAL HAZARD:
 1

Personal Protection: See MSDS Section 8

195722

WARNING: COMBUSTIBLE LIQUID AND VAPOR.

HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED.

DO NOT SPRAY. DO NOT HEAT.

MAY CAUSE ALLERGIC SKIN REACTION.

CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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

**Potential Health Effects** 

Inhalation: Modified acrylamide is harmful if inhaled. Causes respiratory tract irritation. Vapors and mists

will irritate nose and throat and possibly eyes. Headache. Nausea. DO NOT heat or spray as

this increases the inhalation hazard.

**Skin contact:** Modified acrylamide may be absorbed through skin in harmful amounts. Toxic. May cause

allergic skin reaction. Causes skin irritation.

**Eye contact:** Contact with eyes will cause irritation.

**Ingestion:** Modified acrylamide is harmful if swallowed. Toxic.

Existing conditions aggravated by

exposure:

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Eye, skin, and respiratory disorders.

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	%
Acrylate monomer	Proprietary	30 - 60
Modified acrylamide	2680-03-7	10 - 30
Urethane Polymer	Proprietary	10 - 30
Photoinitiator	24650-42-8	1 - 5
Substituted silane	Proprietary	1 - 5
Photoinitiator	Proprietary	1 - 5

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# 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 wash skin thoroughly with soap and water. 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 immediate medical

attention.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious

person. Keep individual calm. Get immediate medical attention.

### 5. FIRE FIGHTING MEASURES

Flash point: 80 °C (176°F) Tagliabue closed cup

Autoignition temperature: Not available

Flammable/Explosive limits - lower: Not available

Flammable/Explosive limits - upper: Not available

**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. Water may be unsuitable as an extinguishing media, but may be

helpful in keeping adjacent containers cool.

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 phosphorus. Oxides of silicon.

Formaldehyde. Irritating organic vapours. Toxic fumes. Isocyanates. Hydrogen

cyanide. Amines.

# 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: 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. DO NOT heat or spray. Use only in area provided with

appropriate exhaust ventilation. Refer to Section 8.

Storage: For safe storage, store at or below 26 °C (78.8 °F)

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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
Acrylate monomer	None	None	None	None
Modified acrylamide	None	None	None	0.1 mg/m3 TWA (Skin) 0.025 ppm TWA (Skin)
Urethane Polymer	None	None	None	None
Photoinitiator	None	None	None	None
Substituted silane	None	None	None	None
Photoinitiator	None	None	None	None

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not

sufficient to control airborne contamination below occupational exposure

limits.

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

limit(s). If this material is handled at elevated temperatures or under mist forming conditions, without engineering controls, a NIOSH approved respirator

must be used.

**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.

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

contact. Neoprene gloves.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Pale yellow
Odor: Mild

Odor threshold: Not available pH: Not applicable

Vapor pressure: $< 5 \text{ mm hg } (20 ^{\circ}\text{C } (68^{\circ}\text{F}))$ Boiling point/range: $> 93 ^{\circ}\text{C } (> 199.4 ^{\circ}\text{F})$ Melting point/ range:Not available

Specific gravity: 1.129
Vapor density: > 1

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Flash point: 80 °C (176°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:**2.04 %; 23.03 g/l (process)
0.31 %; 3.50 g/l (potential)

0.31 %; 3.50 g/l (potential) 2.35 %; 26.53 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 phosphorus. Oxides of silicon.

Formaldehyde. Irritating organic vapours. Isocyanates. Hydrogen cyanide.

Amines.

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

Free radical initiators. Water. Humid air.

Conditions to avoid: Keep away from heat, spark and flame. Avoid temperatures above 26°C

(80°F). Store away from incompatible materials. Direct sunlight. Ultraviolet

radiation. Freezing conditions.

# 11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: Modified acrylamide LD50 (rat) 316 mg/kg

Acute dermal product toxicity: Modified acrylamide LD50 (rabbit) 518 mg/kg

Acute inhalation product toxicity: Modified acrylamide LC50 (rat) 1 h > 776 ppm (vapor)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Acrylate monomer	No	No	No
Modified acrylamide	No	No	No
Urethane Polymer	No	No	No
Photoinitiator	No	No	No
Substituted silane	No	No	No
Photoinitiator	No	No	No

Hazardous components	Health Effects/Target Organs
Acrylate monomer	Irritant, Allergen
Modified acrylamide	Irritant, Eyes, Mutagen, Kidney, Less weight gain and food intake.
Urethane Polymer	No Records
Photoinitiator	No Target Organs
Substituted silane	Irritant, Allergen
Photoinitiator	No Records

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available

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#### 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 classification in this section are for bulk packaging only. Shipping classification may be different for non-bulk packaging as exceptions may apply. Refer to shipping documents for package specific transportation classification.

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

**Proper shipping name:** Combustible liquid, n.o.s. (N,N-Dimethylacrylamide)

Hazard class or division: Combustible Liquid

Identification number: NA 1993 Packing group: III

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

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (2,2-Dimethoxy-1,2-

diphenylethan-1-one, 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. (2,2-

Dimethoxy-1,2-diphenylethan-1-one, Isobornyl acrylate)

Hazard class or division: 9

Identification number: UN 3082 Packing group: III

Marine pollutant: 2,2-Dimethoxy-1,2-diphenylethan-1-one, 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:
CERCLA/SARA Section 311/312:
CERCLA/SARA 313:
None above reporting de minimus
Immediate Health, Delayed Health, Fire
None above reporting de minimus

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

#### **Canada Regulatory Information**

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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: B.3, D.1.B, D.2.B

### 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1,5,8,10,14

Prepared by: Tricia Voghell, Regulatory Affairs Specialist

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