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1. PRODUCT AND COMPANY IDENTIFICATION

3311(TM) Light Cure Adhesive Medical IDH number: Product name: 88189

Device Adhesive

Product type: 19736 Ultraviolet adhesive Item number: Region: **United States**

Company address: **Contact information:** Telephone: 860.571.5100 Henkel Corporation

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

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS: Liquid HEALTH:

FLAMMABILITY: Color: Pale yellow 2 Odor: Mild PHYSICAL HAZARD:

> **Personal Protection:** See MSDS Section 8

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

Physical state:

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.

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

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:

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
Urethane Polymer	Proprietary	30 - 60
Modified acrylamide	2680-03-7	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: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. 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: 77.2 °C (170.96 °F) Pensky Martens closed cup

Autoignition temperature:

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.

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 phosphorus. Oxides of silicon.

Formaldehyde. Hydrogen cyanide. Amines. Isocyanates. Toxic fumes.

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: 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.

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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
Urethane Polymer	None	None	None	None
Modified acrylamide	None	None	None	0.1 mg/m3 TWA (Skin) 0.025 ppm TWA (Skin)
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 availablepH:Not applicableVapor pressure:Not availableBoiling point/range:> 93 °C (> 199.4 °F)

Melting point/ range:

Specific gravity:

Vapor density:

Not available
1.1013

Not available

Flash point: 77.2 °C (170.96 °F) Pensky Martens 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

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VOC content:4.12 %; 45.37 g/l (process)
0.68 %; 7.49 g/l (potential)

0.68 %; 7.49 g/l (potential) 4.8 %; 52.86 g/l (total) (ASTM D5403)

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 nitrogen. Oxides of silicon. Oxides of phosphorus.

Irritating organic vapours. Formaldehyde. Isocyanates. Hydrogen cyanide.

Amines.

Incompatible materials: Strong oxidizing agents. Strong reducing agents. Strong acids and strong

bases. Free radical initiators. Water. Humid air.

Conditions to avoid: Heat, flames, sparks and other sources of ignition. Avoid temperatures above

26°C (80°F). Store away from incompatible materials. Ultraviolet radiation.

Direct sunlight. Freezing conditions.

11. TOXICOLOGICAL INFORMATION

Product toxicity data: Modified acrylamide: LD50 (oral, rat) 316 mg/kg LD50 (dermal, rabbit) 518

mg/kg LC50 (vapor, 1hour, rat) greater than 776 ppm.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Acrylate monomer	No	No	No
Urethane Polymer	No	No	No
Modified acrylamide	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
Urethane Polymer	No Records
Modified acrylamide	Irritant, Eyes, Mutagen, Kidney, Less weight gain and food intake.
Photoinitiator	No Target Organs
Substituted silane	Irritant, Allergen
Photoinitiator	No Records

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)

IDH number: 88189

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

Hazard class or division: Combustible Liquid

Identification number: NA 1993 Packing group: III

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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:

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

IDH number: 88189

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: New Material Safety Data Sheet format.

Prepared by: Tricia Voghell, Regulatory Affairs Specialist

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