Revision Number: 008.0

Issue date: 06/30/2025

1. IDENTIFICATION

Product name: **LOCTITE AA 3211 LIGHT CURE MED. DEV. ADH. known as 3211 Light Cure Adhesive Medic**

IDH number: 182815

Product type/ Recommended use: Ultraviolet adhesive

Item number: 19731

Restriction of Use: None identified

Region: United States

Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Contact information:
Telephone: +1 (860) 571-5100
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
MEDICAL EMERGENCY Phone: Poison Control Center
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1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	
WARNING:	H227 - COMBUSTIBLE LIQUID. H315 - CAUSES SKIN IRRITATION. H317 - MAY CAUSE AN ALLERGIC SKIN REACTION. H319 - CAUSES SERIOUS EYE IRRITATION. H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2

PICTOGRAM(S)

Precautionary Statements

Prevention:
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking.
P261 - Avoid breathing mist/vapours.
P264 - Wash affected area thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves, clothing, eye and face protection.

Response:
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical attention.
P333+P313 - If skin irritation or rash occurs: Get medical attention.
P337+P313 - If eye irritation persists: Get medical attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

	P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.
Storage:	P403 - Store in a well-ventilated place. P405 - Store locked up.
Disposal:	P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Weight %*
Isobornyl acrylate	5888-33-5	30 - 60
2-Hydroxyethyl methacrylate	868-77-9	10 - 30
Gamma-glycidoxypropyl trimethoxysilane	2530-83-8	1 - 5
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	1 - 5
Silica, amorphous, fumed, cryst.-free	112945-52-5	1 - 5
2-Hydroxyethyl acrylate	818-61-1	0.1 - 1
2-Propenoic acid, 2-methyl-, 2-(2-hydroxyethoxy)ethyl ester	2351-43-1	0.1 - 1

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

First Aid Measures by likely routes of exposure

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. 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 medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms and effects (acute and delayed): The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.

Indication of any immediate medical attention / special treatment needed: Not available.

5. FIRE FIGHTING MEASURES

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

Improper extinguishing agents: Not available.

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 silicon. Oxides of phosphorus. Formaldehyde. Hydrogen cyanide. Amines. Isocyanates. 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: Do not allow product to enter sewer or waterways.

Clean-up methods: Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. 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. Refer to Section 8.

Storage: For safe storage, store between 10 °C (50°F) and 32 °C (89.6 °F)
Keep in a cool, well ventilated area away from heat, sparks and open flame.
Keep container tightly closed until ready for use.

Shelf Life Statement: Not available.

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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
None	None	None	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below 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. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Transparent, Cloudy
Odor: Mild
Odor threshold: Not available.
pH: Not applicable, Product reacts with water.
Vapor pressure: 6.67 mbar (20 °C (68°F))
Boiling point/range: > 93 °C (> 199.4 °F)
Melting point/ range: Not applicable, Product is a liquid
Density/Relative density: 1.1642
Relative vapor density: 1 20 °C
Flash point: 86 °C (186.8 °F) Pensky Martens closed cup
Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: Not available.
Flammability: The product is not flammable.
Evaporation rate: Not available.

Solubility:	Slight Water
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	1.24 %; 14.44 g/l (process) 0.94 %; 10.94 g/l (potential) 2.18 %; 25.38 g/l (total) (ASTM D5403)
Dynamic viscosity:	25 mPa.s
Kinematic viscosity:	> 20.5 mm2/s
Particle characteristics:	Not applicable, Product is a liquid
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Unstable at higher temperatures. Stable under recommended storage conditions.
Hazardous reactions:	None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Oxides of silicon. Oxides of phosphorus. Irritating organic vapours. Dimethylamine. Formaldehyde. Hydrogen cyanide. Isocyanates. Amines.
Incompatible materials:	Strong oxidizing agents. Strong reducing agents. Strong acids. Strong bases. Free radical initiators. Water. Humid air. Heavy metals.
Reactivity:	Not available.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. Ultraviolet radiation. Direct sunlight. Freezing conditions.

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact: May cause allergic skin reaction. Causes skin irritation.
Eye contact: Causes serious eye irritation.
Ingestion: Not expected under normal conditions of use. May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s
Isobornyl acrylate	None
2-Hydroxyethyl methacrylate	Oral LD50 (Rat) = 11.2 g/kg Oral LD50 (Rat) = 5,050 mg/kg
Gamma-glycidoxypropyl trimethoxysilane	Inhalation LC50 (Rat, 4 h) = > 5.3 mg/l
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	None
Silica, amorphous, fumed, cryst.-free	None
2-Hydroxyethyl acrylate	None
2-Propenoic acid, 2-methyl-, 2-(2-hydroxyethoxy)ethyl ester	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Isobornyl acrylate	Irritant	Allergen	
2-Hydroxyethyl methacrylate	Irritant	Allergen	
Gamma-glycidoxypropyl trimethoxysilane	Irritant	Allergen	
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
Silica, amorphous, fumed, cryst.-free			
2-Hydroxyethyl acrylate	Irritant	Allergen	Central nervous system Heart Kidney Liver Lung Some evidence of carcinogenicity Spleen
2-Propenoic acid, 2-methyl-, 2-(2-hydroxyethoxy)ethyl ester	Irritant	Allergen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Isobornyl acrylate	No	No	No
2-Hydroxyethyl methacrylate	No	No	No
Gamma-glycidoxypropyl trimethoxysilane	No	No	No
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No	No	No
Silica, amorphous, fumed, cryst.-free	No	No	No
2-Hydroxyethyl acrylate	No	No	No
2-Propenoic acid, 2-methyl-, 2-(2-hydroxyethoxy)ethyl ester	No	No	No

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.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any packaging.

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

Proper shipping name:	Combustible liquid, n.o.s. (Methacrylate esters)
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)
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)
Hazard class or division:	9
Identification number:	UN 3082
Packing group:	III
Marine pollutant:	2,2-Dimethoxy-1,2-diphenylethan-1-one

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.
TSCA 12 (b) Export Notification:	None above reporting de minimis
CERCLA/SARA Section 302 EHS:	None above reporting de minimis.
CERCLA/SARA Section 311/312:	Please refer to the GHS classification in Section 2
CERCLA/SARA Section 313:	None above reporting de minimis.
California Proposition 65:	This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

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.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 3,8,11

Prepared by: Product Safety and Regulatory Affairs

Issue date: 06/30/2025

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