



Revision Number: 006.0

Issue date: 07/31/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE AA 3211 LIGHT CURE MED. **IDH number:** 135298
DEV. ADH. known as 3211 Light Cure
Adhesive Medic

Product type: Ultraviolet adhesive **Item number:** 19730
Restriction of Use: None identified **Region:** United States

Company address: **Contact information:**
 Henkel Corporation Telephone: (860) 571-5100
 One Henkel Way MEDICAL EMERGENCY Phone: Poison Control Center
 Rocky Hill, Connecticut 06067 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
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: COMBUSTIBLE LIQUID.
 CAUSES SKIN IRRITATION.
 MAY CAUSE AN ALLERGIC SKIN REACTION.
 CAUSES SERIOUS EYE IRRITATION.

| HAZARD CLASS | HAZARD CATEGORY |
|--------------------|-----------------|
| FLAMMABLE LIQUID | 4 |
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |
| SKIN SENSITIZATION | 1 |

PICTOGRAM(S)



Precautionary Statements

Prevention: Keep away from heat, sparks, open flames, hot surfaces - no smoking. Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection.

Response: IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

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.

IDH number: 135298

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s) | CAS Number | Percentage* |
|---|-------------|-------------|
| Acrylate monomer | Proprietary | 30 - 60 |
| 2-Hydroxyethyl methacrylate | 868-77-9 | 10 - 30 |
| Photoinitiator | Proprietary | |
| Substituted silane | Proprietary | 1 - 5 |
| Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide | 75980-60-8 | 1 - 5 |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 1 - 5 |
| Adhesion Promoter | Proprietary | 0.1 - 1 |
| Acrylate | Proprietary | 0.1 - 1 |

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

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 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. |
| Symptoms: | See Section 11. |

5. FIRE FIGHTING MEASURES

| | |
|---|---|
| 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 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.

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 Component(s) | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|---|--|---|-----------|---------------|
| Acrylate monomer | None | None | None | None |
| 2-Hydroxyethyl methacrylate | None | None | None | 3 ppm Ceiling |
| Photoinitiator | None | None | None | None |
| Substituted silane | None | None | None | None |
| Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide | None | None | None | None |
| Silica, amorphous, fumed, crystal-free | 10 mg/m ³ TWA Inhalable dust. 3 mg/m ³ TWA Respirable fraction. | 20 MPPCF TWA 0.8 mg/m ³ TWA | None | None |
| Adhesion Promoter | 20 ppm TWA | None | None | None |
| Acrylate | 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. Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Color:

Transparent, Slightly Hazy

Odor:

Mild

Odor threshold:

Not available.

pH:

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:

1.1642

Vapor density:

> 1

| | |
|---|---|
| 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. |
| Evaporation rate: | Not available. |
| Solubility in water: | Slight |
| Partition coefficient (n-octanol/water): | 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) |
| Viscosity: | Not available. |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Stability: | Unstable at higher temperatures. |
| 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

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|-------------------------------------|-----------------------------------|
| Relevant 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: Causes skin irritation. May cause allergic skin reaction.
Eye contact: Causes serious eye irritation.
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|---|---|--|
| Acrylate monomer | None | Irritant, Allergen |
| 2-Hydroxyethyl methacrylate | Oral LD50 (RAT) = 11.2 g/kg Oral LD50 (RAT) = 5,050 mg/kg | Irritant, Allergen |
| Photoinitiator | None | No Target Organs |
| Substituted silane | None | Allergen, Irritant |
| Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide | None | No Records |
| Silica, amorphous, fumed, crystal-free | None | Nuisance dust |
| Adhesion Promoter | Oral LD50 (RABBIT) = 1,200 mg/kg Oral LD50 (RAT) = 1,060 mg/kg Oral LD50 (RAT) = 2,224 mg/kg Dermal LD50 (RABBIT) = 500 mg/kg Inhalation LC50 (RAT, 4 h) = 7.1 mg/l | Corrosive, Irritant, Allergen |
| Acrylate | Dermal LD50 (RABBIT) = 1,010 mg/kg | Allergen, Central nervous system, Heart, Irritant, Kidney, Liver, Lung, Some evidence of carcinogenicity, Spleen |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|----------------|-----------------|--|
| Acrylate monomer | No | No | No |
| 2-Hydroxyethyl methacrylate | No | No | No |
| Photoinitiator | No | No | No |
| Substituted silane | No | No | No |
| Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide | No | No | No |
| Silica, amorphous, fumed, crystal-free | No | No | No |
| Adhesion Promoter | No | No | No |
| Acrylate | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

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

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 or are exempt from listing on the Toxic Substances Control Act 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: Immediate Health, Delayed Health, Fire
CERCLA/SARA Section 313: None above reporting de minimis
California Proposition 65: 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: New Safety Data Sheet format.

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Issue date: 07/31/2014

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