

Revision Number: 005.0 Issue date: 08/05/2014

1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Item number:

Product name: LOCTITE AA 3414 A known as

Loctite(R) 3414 Structural ADH

Product type: Tough acrylic
Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

Company address:

Region: United States
Contact information:
Telephone: (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711

702047

32512_209781

TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: HIGHLY FLAMMABLE LIQUID AND VAPOR.

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE DAMAGE.

MAY CAUSE RESPIRATORY IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	2
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3

PICTOGRAM(S)



Precautionary Statements

Prevention: Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly

closed. No release into water. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye

protection, and face protection.

Response: If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove

person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Immediately call a poison control center or physician. If skin irritation or rash occurs: 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 container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

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

governmental regulations.

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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	Percentage*	
Methyl methacrylate	80-62-6	30 - 60	
Methacrylic acid	79-41-4	5 - 10	
Benzenesulfonyl chloride, 4-methyl-	98-59-9	1 - 5	
Cumene hydroperoxide	80-15-9	1 - 5	
Butyl hydroxytoluene	128-37-0	1 - 5	
Triacrylate ester	Proprietary	0.1 - 1	
Methacrylate acid ester	Unknown	0.1 - 1	
Ethylene glycol	107-21-1	0.1 - 1	
Polyglycol dimethacrylate	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 breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes 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 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: Dry chemical.

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

turn-out gear.

Unusual fire or explosion hazards: Vapors may accumulate in low or confined areas, travel considerable distance

to source of ignition, and flash back. Closed containers may rupture (due to

build up of pressure) when exposed to extreme heat.

Hazardous combustion products:

Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide. Methylene bisphenyl isocyanate. Cyclopentanone. Tetrahydrofuran.

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. Ensure adequate ventilation. Wear appropriate

personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled

material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Keep container closed. During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Make sure containers are

properly grounded before use or transfer of material.

Storage: For safe storage, store at or below 37.8 °C (100°F)

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Protect from direct sunlight. Maintain head space in storage containers to support oxygen

requirements of the inhibitor(s).

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
Methyl methacrylate	50 ppm TWA 100 ppm STEL (Sensitizer.)	100 ppm (410 mg/m3) PEL	None	50 ppm
Methacrylic acid	20 ppm TWA	None	None	None
Benzenesulfonyl chloride, 4-methyl-	None	None	5 mg/m3 Ceiling	None
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
Butyl hydroxytoluene	2 mg/m3 TWA Inhalable fraction and vapor.	None	None	None
Triacrylate ester	None	None	None	None
Methacrylate acid ester	None	None	None	None
Ethylene glycol	100 mg/m3 Ceiling Aerosol.	None	None	None
Polyglycol dimethacrylate	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).

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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 chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:Milky whiteOdor:Pungent, AcrylicOdor threshold:Not available.pH:Not available.

Vapor pressure:29 mm hg (20 °C (68°F))Boiling point/range:101.1 °C (214°F) Estimated

Melting point/ range:
Specific gravity:

Not available.
0.97 - 1.0

Vapor density: > 1 Heavier than air

Flash point: 10.56 °C (51.01 °F) Tagliabue closed cup

Flammable/Explosive limits - lower: 2.1 % (Methyl Methacrylate)
Flammable/Explosive limits - upper: 12.5 % (Methyl Methacrylate)

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

Not available.

Slight

Not available.

VOC content: 1.98 %; 1.92 g/l (Adhesive and Activator mixed)

Viscosity: Not available.

Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: May occur with excessive aging, excessive heat, polymerization catalyst, inhibitor depletion,

direct sunlight and under oxygen-free atmospheres.

Hazardous decomposition

products:

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Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide. Isocyanates. Tetrahydrofuran.

Incompatible materials: Oxidizing agents. Reducing agents. Strong acids. Strong bases. Amines. Moisture. Alkalis.

Reactivity: Not available.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight.

Loss of polymerization inhibitor. Loss of dissolved air.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

May cause respiratory tract irritation. Drowsiness. Dizziness. Causes skin irritation. May cause allergic skin reaction. Causes serious eye damage.

May cause gastrointestinal tract irritation if swallowed. Inhalation: Skin contact:

Eye contact:

Ingestion:

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Methyl methacrylate	Oral LD50 (RAT) = 7,800 mg/kg Oral LD50 (RABBIT) = 6,000 mg/kg Oral LD50 (RAT) = 9,400 mg/kg Inhalation LC50 (RAT, 8 h) = 3750 ppm	Allergen, Irritant, Kidney, Liver, Mutagen, Nervous System, Respiratory	
Methacrylic acid	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	
Benzenesulfonyl chloride, 4-methyl-	None	Irritant, Allergen, Corrosive	
Cumene hydroperoxide	None	Allergen, Central nervous system, Corrosive, Irritant, Mutagen	
Butyl hydroxytoluene	Oral LD50 (RAT) = 890 mg/kg	Irritant, Mutagen	
Triacrylate ester	None	Allergen, Irritant	
Methacrylate acid ester	None	No Data	
Ethylene glycol	Oral LD50 (RAT) = 5.89 g/kg Dermal LD50 (RABBIT) = 9,530 mg/kg	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic	
Polyglycol dimethacrylate	None	Allergen, Irritant	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Methyl methacrylate	No	No	No
Methacrylic acid	No	No	No
Benzenesulfonyl chloride, 4-methyl-	No	No	No
Cumene hydroperoxide	No	No	No
Butyl hydroxytoluene	No	No	No
Triacrylate ester	No	No	No
Methacrylate acid ester	No	No	No
Ethylene glycol	No	No	No
Polyglycol dimethacrylate	No	No	No

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

Hazardous waste number: D001: Ignitable.

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: Adhesives (Up to 55 gallons max per inner/primary package when shipped as

originally packaged only)

3

Hazard class or division:

Identification number: **UN 1133** Packing group: Ш

DOT Hazardous Substance(s): alpha, alpha-Dimethylbenzylhydroperoxide, Methyl methacrylate

International Air Transportation (ICAO/IATA)

Proper shipping name: Adhesives (Up to 55 gallons max per inner/primary package when shipped as

originally packaged only)

Hazard class or division: 3 Identification number:

UN 1133 Packing group: Ш

Water Transportation (IMO/IMDG)

Proper shipping name: ADHESIVES (Up to 55 gallons max per inner/primary package when shipped as

originally packaged only)

Hazard class or division: 3 Identification number: **UN 1133** Packing group: Ш

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.

None above reporting de minimis TSCA 12 (b) Export Notification:

CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312:

CERCLA/SARA Section 313:

None above reporting de minimis Fire, Immediate Health, Delayed Health

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). Methyl methacrylate (CAS# 80-62-6). Cumene hydroperoxide (CAS# 80-15-9).

CERCLA Reportable quantity: Methyl methacrylate (CAS# 80-62-6) 1,000 lbs. (454 kg)

Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg)

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

IDH number: 702047

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.

Prepared by: Rena Petrides, Regulatory Affairs Specialist

Issue date: 08/05/2014

IDH number: 702047

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