



Revision Number: 003.0

Issue date: 10/16/2025

## 1. IDENTIFICATION

<b>Product name:</b>	<b>LOCTITE AA 334 MAGNET BONDER</b> known as 334 Structural Adhesive Magnet	<b>IDH number:</b>	247075
<b>Product type/</b>	Acrylic Adhesive	<b>Item number:</b>	33403
<b>Recommended use:</b>		<b>Region:</b>	United States
<b>Restriction of Use:</b>	None identified	<b>Contact information:</b>	
<b>Company address:</b>	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067		

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

**DANGER:**

H227 - COMBUSTIBLE LIQUID.  
 H315 - CAUSES SKIN IRRITATION.  
 H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.  
 H318 - CAUSES SERIOUS EYE DAMAGE.  
 H331 - TOXIC IF INHALED.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
ACUTE TOXICITY INHALATION	3
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1

### PICTOGRAM(S)



### Precautionary Statements

<b>Prevention:</b>	P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking. P261 - Avoid breathing mist/vapours. P264 - Wash affected area thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace.
<b>Response:</b>	P280 - Wear protective gloves, clothing, eye and face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340+P311 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 - If skin irritation or rash occurs: 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.
<b>Storage:</b>	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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**Disposal:** P405 - Store locked up.  
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 %*
Aromatic methacrylate ester	2495-37-6	30 - 60
methacrylic acid	79-41-4	10 - 30
Maleimide resin	3006-93-7	5 - 10
Tert-butyl perbenzoate	614-45-9	1 - 5
Silica, amorphous, fumed, cryst.-free	112945-52-5	1 - 5
1,3-Butylene glycol dimethacrylate	1189-08-8	1 - 5

\* 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

<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Skin contact:</b>	Immediately wash skin thoroughly with soap and water. Remove contaminated clothing and footwear. Wash clothing before reuse. If symptoms develop and persist, get medical attention.
<b>Eye contact:</b>	Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.
<b>Ingestion:</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Keep individual calm. Get medical attention.
<b>Most important symptoms and effects (acute and delayed):</b>	The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.
<b>Indication of any immediate medical attention / special treatment needed:</b>	Not available.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Improper extinguishing agents:</b>	Not available.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Unusual fire or explosion hazards:</b>	Uncontrolled polymerization may cause rapid evolution of heat and increase in pressure that could result in violent rupture of sealed storage vessels or containers. Vapors may travel considerable distance to source of ignition and flash back.

**Hazardous combustion products:**

Oxides of carbon. Oxides of nitrogen. 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. 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. Keep away from heat, spark and flame. 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. Refer to Section 8.

**Storage:**

For safe storage, store at or below 38 °C (100.4 °F). Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Protect from direct sunlight. Do not freeze.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 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
methacrylic acid	20 ppm TWA	None	None	None
Silica, amorphous, fumed, cryst.-free	3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles.	20 MPPCF TWA 0.8 mg/m3 TWA 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. 15 MPPCF TWA Respirable fraction.	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). If this material is handled at elevated temperature or under mist forming conditions, 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. Safety showers and eye wash stations should be available.

**Skin protection:**

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Liquid

**Color:**

Yellow

**Odor:**

Acrylic

**Odor threshold:**

Not available.

**pH:**

Not applicable, Product is non-soluble (in water).

**Vapor pressure:**

4.53 kPa (20 °C (68°F))

**Boiling point/range:**

> 149 °C (> 300.2 °F)

**Melting point/ range:**

Not applicable, Product is a liquid

<b>Density/Relative density:</b>	1.0623 at 25 °C (77°F)
<b>Relative vapor density:</b>	20 °C Heavier than air
<b>Flash point:</b>	81.5 °C (178.7 °F) Pensky Martens closed cup
<b>Flammable/Explosive limits - lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Autoignition temperature:</b>	Not available.
<b>Flammability:</b>	Not applicable
<b>Evaporation rate:</b>	Not available.
<b>Solubility:</b>	Insoluble Water
<b>Partition coefficient n-octanol/water (logarithmic value):</b>	Not available.
<b>VOC content:</b>	0.59 % (Adhesive and Activator mixed)
<b>Dynamic viscosity:</b>	50,000 - 120,000 mPa.s
<b>Kinematic viscosity:</b>	> 20.5 mm <sup>2</sup> /s
<b>Kinematic viscosity:</b>	57,000 - 85,000 mm <sup>2</sup> /s
<b>Particle characteristics:</b>	Not applicable, Product is a liquid
<b>Decomposition temperature:</b>	Not available.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of storage and use.
<b>Hazardous reactions:</b>	None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.
<b>Incompatible materials:</b>	Strong oxidizing agents. Free radical initiators. Reducing agents. Oxygen scavengers. Amines. Acids. Heavy metals. Ammonia. Alkalis. Peroxides. Do not mix adhesive with primer in bulk.
<b>Reactivity:</b>	Not available.
<b>Conditions to avoid:</b>	Keep away from heat, spark and flame. Store away from incompatible materials. Protect from direct sunlight. Freezing conditions. Loss of polymerization inhibitor. Inert gas blanketing. UV light.

## 11. TOXICOLOGICAL INFORMATION

<b>Likely routes of exposure:</b>	Skin, Inhalation, Eyes, Ingestion
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### Potential Health Effects/Symptoms

<b>Inhalation:</b>	Toxic by inhalation. Vapors and mists will irritate nose and throat and possibly eyes. DO NOT heat or spray as this increases the inhalation hazard.
<b>Skin contact:</b>	Causes skin irritation. May cause allergic skin reaction. Modified acrylamide may be absorbed through skin in harmful amounts.
<b>Eye contact:</b>	Causes serious eye damage.
<b>Ingestion:</b>	Modified acrylamide is harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s
Aromatic methacrylate ester	None
methacrylic acid	Oral LD50 (Mouse) = 1,332 mg/kg Oral LD50 (Mouse) = 1,600 mg/kg Oral LD50 (Mouse) = 1,250 mg/kg 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
Maleimide resin	None
Tert-butyl perbenzoate	Inhalation LC50 (Rat, 4 h) = > 0.26 mg/l
Silica, amorphous, fumed, cryst.-free	None
1,3-Butylene glycol dimethacrylate	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Aromatic methacrylate ester	Irritant	Allergen	
methacrylic acid	Corrosive Irritant	Allergen	
Maleimide resin			
Tert-butyl perbenzoate	Irritant		Central nervous system Mutagen
Silica, amorphous, fumed, cryst.-free			
1,3-Butylene glycol dimethacrylate	Irritant	Allergen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Aromatic methacrylate ester	No	No	No
methacrylic acid	No	No	No
Maleimide resin	No	No	No
Tert-butyl perbenzoate	No	No	No
Silica, amorphous, fumed, cryst.-free	No	No	No
1,3-Butylene glycol dimethacrylate	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)

<b>Proper shipping name:</b>	Combustible liquid, n.o.s. (Methylacrylic acid)
<b>Hazard class or division:</b>	Combustible Liquid
<b>Identification number:</b>	NA 1993
<b>Packing group:</b>	III

### International Air Transportation (ICAO/IATA)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

#### Water Transportation (IMO/IMDG)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

## 15. REGULATORY INFORMATION

### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory.
<b>TSCA 12 (b) Export Notification:</b>	None above reporting de minimis
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimis.
<b>CERCLA/SARA Section 311/312:</b>	Please refer to the GHS classification in Section 2
<b>CERCLA/SARA Section 313:</b>	None above reporting de minimis.
<b>CERCLA Reportable quantity:</b>	Tert-butyl perbenzoate (CAS# 614-45-9) 100 lbs. (45.4 kg)
<b>California Proposition 65:</b>	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

<b>CEPA DSL/NDL Status:</b>	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
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## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 3, 8, 9, 11, 13

**Prepared by:** Product Safety and Regulatory Affairs

**Issue date:** 10/16/2025

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