



Revision Number: 001.1

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## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b>	<b>334 Structural Adhesive Magnet Bonder</b>	<b>IDH number:</b>	247075
<b>Product type:</b>	Tough acrylic	<b>Item number:</b>	33403
<b>Company address:</b>	Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067	<b>Region:</b>	United States
		<b>Contact information:</b>	Telephone: 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 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

<b>Physical state:</b>	Liquid	<b>HEALTH:</b>	*2
<b>Color:</b>	Yellow	<b>FLAMMABILITY:</b>	2
<b>Odor:</b>	None	<b>PHYSICAL HAZARD:</b>	1
		<b>Personal Protection:</b>	See MSDS Section 8

**WARNING:** COMBUSTIBLE LIQUID AND VAPOR.  
CAUSES EYE IRRITATION.  
MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION.  
MAY CAUSE ALLERGIC SKIN REACTION.  
MAY BE HARMFUL IF SWALLOWED.

**Relevant routes of exposure:** Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects

<b>Inhalation:</b>	May cause respiratory tract irritation. May cause irritation to nose and throat.
<b>Skin contact:</b>	May cause skin irritation. May cause allergic skin reaction.
<b>Eye contact:</b>	Vapors may irritate eyes. Contact with eyes will cause irritation.
<b>Ingestion:</b>	May be harmful if swallowed. May cause gastrointestinal tract irritation if swallowed.

**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	%
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, crystal-free	112945-52-5	1 - 5
1,3-Butylene glycol dimethacrylate	1189-08-8	1 - 5

#### 4. FIRST AID MEASURES

<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.

#### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	81.5 °C (178.7 °F) Pensky Martens closed cup
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits - lower:</b>	Not available
<b>Flammable/Explosive limits - upper:</b>	Not available
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<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.
<b>Hazardous combustion products:</b>	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.

<b>Environmental precautions:</b>	Do not allow product to enter sewer or waterways.
<b>Clean-up methods:</b>	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

<b>Handling:</b>	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. Refer to Section 8.
<b>Storage:</b>	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 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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Aromatic methacrylate ester	None	None	None	None
Methacrylic acid	20 ppm TWA	None	None	None
Maleimide resin	None	None	None	None
Tert-butyl perbenzoate	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
1,3-Butylene glycol dimethacrylate	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 impermeable gloves and protective clothing as necessary to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Yellow
Odor:	None
Odor threshold:	Not available
pH:	Not available
Vapor pressure:	Not available
Boiling point/range:	Not available
Melting point/ range:	Not available
Specific gravity:	1.0623 at 25 °C (77°F)
Vapor density:	Not available
Flash point:	81.5 °C (178.7 °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:	Not available
Partition coefficient (n-octanol/water):	Not available
VOC content:	0.59 % (Adhesive and Activator mixed)

## 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>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

Hazardous components	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, crystal-free	No	No	No
1,3-Butylene glycol dimethacrylate	No	No	No

Hazardous components	Health Effects/Target Organs
Aromatic methacrylate ester	Irritant, Allergen
Methacrylic acid	Corrosive, Irritant, Allergen
Maleimide resin	No Target Organs
Tert-butyl perbenzoate	Central nervous system, Irritant, Mutagen
Silica, amorphous, fumed, crystal-free	Nuisance dust
1,3-Butylene glycol dimethacrylate	Irritant, Allergen

## 12. ECOLOGICAL INFORMATION

<b>Ecological information:</b>	Not available
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## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

<b>Recommended method of disposal:</b>	Dispose of according to Federal, State and local governmental regulations.
<b>Hazardous waste number:</b>	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

## 14. TRANSPORT INFORMATION

The shipping classification in this section are for bulk packaging only. Shipping classification may be different for non-bulk packaging as exceptions may apply. Refer to shipping documents for package specific transportation classification.

### 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 or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12(b) Export Notification:</b>	None above reporting de minimus
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimus
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health, Delayed Health, Fire
<b>CERCLA/SARA 313:</b>	None above reporting de minimus
<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.
<b>WHMIS hazard class:</b>	B.3, D.2.B

**16. OTHER INFORMATION**

This material safety data sheet contains changes from the previous version in sections: 9

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