Material Safety Data Sheet

Henkel Technologies

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE® 331™ MAGNET BONDER ADHESIVE
Item No. : 1057673 / IDH No. 1057673
Product type: Acrylic
Region: United States

Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	%	ACGIH TLV	OSHA PEL	OTHER
Methacrylate Monomer Proprietary	10-30	None	None	None
Polyurethane methacrylate resin PROPRIETARY	10-30	None	None	None
Substituted Maleimide Proprietary	10-30	None	None	None
Hydroxyalkyl methacrylate 27813-02-1	10-30	None	None	1 ppm TWA; 3 ppm STEL
Silica, amorphous, treated 68909-20-6	5-10	10 mg/m^3 (Inhal)	20mppcf	6 mg/m^3
Polyurethane methacrylate resin PROPRIETARY	5-10	None	None	None
High boiling methacrylate Proprietary	1-5	None	None	None
Ethylene/methylacrylate copolymer UNKNOWN	1-5	None	None	None
tert-butyl peroxybenzoate Proprietary	1-5	None	None	None
Stabilizer Proprietary	1-5	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state:	Liquid/paste	**HEALTH:**	2*
Color:	Pale yellow	**FLAMMABILITY:**	2
Odor:	Slight	**PHYSICAL HAZARD:**	1
		Personal Protection:	See Section 8

WARNING: COMBUSTIBLE LIQUID AND VAPOR.
CAUSES EYE IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE SKIN IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: May cause irritation to nose and throat.
Skin contact: Irritating to skin. May cause allergic skin reaction. May cause sensitization by skin contact.
Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.
Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation if swallowed.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

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. Keep individual calm. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point: 80°C (176°F) Pensky Martens closed cup

Autoignition temperature: Not available

Flammable/Explosive limits-lower %: Not available

Flammable/Explosive limits-upper %: Not available

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus. Irritating organic vapors. Hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.

Clean-up methods: Remove all ignition sources. Ensure adequate ventilation. Soak up with inert absorbent. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling: Keep away from heat, spark and flame. Do not breathe mist or vapors. Avoid contact with eyes, skin and clothing.

Storage: For safe storage, store at or below 38°C (100°F). Store away from heat, sparks, flames, or other sources of ignition.

Incompatible products: Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

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

Eye/face protection: Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid/paste
Color:	Pale yellow
Odor:	Slight
Vapor pressure:	Not available
pH:	Not applicable
Boiling point/range:	Greater than 149ºC (300ºF)
Melting point/range:	Not available
Specific gravity:	1.1
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Slight
Partition coefficient (n-octanol/water):	Not available
VOC content:	0.85%; 9.35 grams/liter

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus. Hydrocarbons. Irritating organic vapors.

Incompatability: Strong oxidizers. Acids. Alkalis. Free radical initiators.

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatabilty" (Section 10).

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Methacrylate Monomer Proprietary	No	No	No
Polyurethane methacrylate resin PROPRIETARY	No	No	No
Substituted Maleimide Proprietary	No	No	No
Hydroxyalkyl methacrylate 27813-02-1	No	No	No
Silica, amorphous, treated 68909-20-6	No	No	No
Polyurethane methacrylate resin PROPRIETARY	No	No	No
High boiling methacrylate Proprietary	No	No	No
Ethylene/methylacrylate copolymer UNKNOWN	No	No	No
tert-butyl peroxybenzoate Proprietary	No	No	No
Stabilizer Proprietary	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Methacrylate Monomer Proprietary	Allergen, Irritant
Polyurethane methacrylate resin PROPRIETARY	Allergen, Irritant
Substituted Maleimide Proprietary	No Target Organs
Hydroxyalkyl methacrylate 27813-02-1	Allergen, Irritant
Silica, amorphous, treated 68909-20-6	No Target Organs
Polyurethane methacrylate resin PROPRIETARY	Allergen, Irritant
High boiling methacrylate Proprietary	Allergen, Irritant
Ethylene/methylacrylate copolymer UNKNOWN	No data
tert-butyl peroxybenzoate Proprietary	Central nervous system, Irritant, Mutagen
Stabilizer Proprietary	Irritant, Kidney

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.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

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

International Air Transportation (ICAO/IATA):

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

WaterTransportation (IMO/IMDG):

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

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.
CERCLA/SARA Section 302 EHS:	None above reporting de minimus.
CERCLA/SARA Section 311/312:	Immediate Health Hazard, Delayed Health Hazard, Fire
CERCLA/SARA 313:	None.
California Proposition 65:	This product contains a chemical known to the State of California to cause cancer and 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.
WHMIS hazard class:	B.3, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 15

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