

Revision Number: 001.2

Henkel Electronic Materials LLC

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type:

Company address:

Irvine, CA 92606

14000 Jamboree Road

Loctite(R) Encap(R) 3182 Polyurethane IDH number: Hardener Polyurethane hardener

233628

UB5560-B80 Item number: Region: **United States Contact information:** Telephone: 1.888.9.HENKEL (1.888.943.6535) 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

	EMERGEN		
Physical state: Color: Odor:	Low viscosity, Liquid Brown Aromatic	HMIS: HEALTH: FLAMMABILITY: PHYSICAL HAZARD: Personal Protection:	*1 1 0 See MSDS Section 8
CAUTION:	MAY CAUSE EYE,	SKIN AND RESPIRATORY TRA	
Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion			
Potential Health Effects			
Inhalation: Skin contac Eye contact Ingestion:	: May cause irritation	ated contact may cause irritation.	
Existing conditions agg exposure:		piratory disorders. Pre-existing skin or lun ing exaggerated allergic symptoms from o	
	This material is cor 1910.1200).	nsidered hazardous by the OSHA Hazard	Communication Standard (29 CFF

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%	
Quartz (SiO2)	14808-60-7	60 - 100	
Glyceridic oil	Proprietary	30 - 60	
Zeolites	1318-02-1	1 - 5	
Carbon black	1333-86-4	0.1 - 1	

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:	Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes 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.	
5. FIRE FIGHTING MEASURES		
Flash point:	163 °C (325.4 °F) Closed cup	

Autoignition temperature:	Not available.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
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.
Unusual fire or explosion hazards:	Not available.
Hazardous combustion products:	Oxides of carbon. Toxic and irritating vapors.

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:	Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Remove all sources of ignition. 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.

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.
Keep container closed. Refer to Section 8.Storage: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, 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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None
Glyceridic oil	None	None	None	None
Zeolites	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction. 1 mg/m3 TWA Respirable fraction.	None	None	None
Carbon black	3.5 mg/m3 TWA 3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 TWA	None	None

Engineering controls:

Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Respiratory protection:

Eye/face protection:

Skin protection:

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

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

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: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content:

Low viscosity, Liquid Brown Aromatic Not available. Not available. 0.2 mm hg > 149 °C (> 300.2 °F) Not available. 1.6 3.6 163 °C (325.4 °F) Closed cup Not available. Not available. Not available. < 0.1 (Ether = 1) Soluble Not available. < 1 %; < 10 g/l (estimated value for resin and hardener mixed together)

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon. Irritating vapors.
Incompatible materials:	Strong oxidizing agents. Acids.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition. Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcino	gen IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	
Quartz (SiO2)	Known To Be H Carcinoger	Group 1	No	
Glyceridic oil	No	No	No	
Zeolites	No	No	No	
Carbon black	No	Group 2B	No	
Hazardous components		Health Effects/Targ	et Organs	
Quartz (SiO2)		Immune system, Lung, Some evidence of carcinogenicity		
Glyceridic oil		Irritant		
Zeolites		Mutagen, Respiratory, Some evidence of carcinogenicity		
Carbon black		Respiratory, Some evidence of carcinogenicity		

12. ECOLOGICAL INFORMATION

Ecological information:

Hazardous waste number:

Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Not a RCRA hazardous waste.

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

14. TRANSPORT INFORMATION

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 Water Transportation (IMO/IMDG) Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group:

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 minimus
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	None above reporting de minimus Immediate Health, Delayed Health None above reporting de minimus
California Proposition 65:	This product contains a chemical known in the State of California to cause cancer.

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.
WHMIS hazard class:	D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New information added in Section(s): 1,2,3,4,7,8,10,11

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