

AVON, OH 44011
 TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

LOCTITE WELD BONDING COMPOUND

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: LOCTITE WELD BONDING COMPOUND
 Product Type: Epoxy adhesive/sealant

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
RESIN		
Epoxy resin	25068-38-6	30-60
Barium sulfate	7727-43-7	10-30
Calcium carbonate	471-34-1	10-30
Iron oxide	1309-38-2	10-30
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	1-5
Bisphenol A, formaldehyde, Epichlorhydrin polymer	28906-96-9	1-5
Clay	1332-58-7	1-5
Silica, quartz	14808-60-7	0.1 - 1
HARDENER		
Calcium carbonate	471-34-1	30-60
Polymercaptan	Proprietary	10-30
Barium sulfate	7727-43-7	10-30
Aluminum silicate	1327-36-2	5-10
DIETHYLENETRIAMINE	111-40-0	5-10
TITANIUM DIOXIDE	13463-67-7	1-5

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Barium sulfate	10 mg/m3 dust	10 mg/m3 dust 5 mg/m3 respir.	None
Calcium carbonate	10 mg/m3 dust	15 mg/m3 dust 5 mg/m3 respir.	None
Iron oxide	1 mg/M3 (Fe)	10 mg/M3 (Fe) particulate	None
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	6 mg/m3 TWA	10 mg/m3 TWA	3 mg/m3 TWA resp. dust
DIETHYLENETRIAMINE	1 ppm skin 4.2mg/m3 skin	1 ppm TWA 4mg/m3	None
TITANIUM DIOXIDE	10 mg/m3	15 mg/m3 Total dust	None
Clay	2mg/m3 TWA	15 mg/m3 TWA dust 5 mg/m3 resp.	
Silica, quartz	0.05 mg/m3 TWA	0.1 mg/m3 TWA	

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3. HAZARDS IDENTIFICATION

Toxicity: Skin and eye irritant. Skin sensitizer.
 Moderately toxic by ingestion.
 Primary Routes of Entry: Skin, ingestion, inhalation.
 Signs and Symptoms of Exposure: May cause eye irritation and other allergic responses such as skin sensitization or dermatitis
 Existing Conditions
 Aggravated by Exposure: None known

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Epoxy resin	ALG IRR	NO	NO	NO
Barium sulfate	LUN	NO	NO	NO
Calcium carbonate	NUI	NO	NO	NO
Iron oxide	ALG CAR CNS IRR KID LIV LUN	NO	NO	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO
Polymercaptan	No Data	NO	NO	NO
Bisphenol A, formaldehyde Epichlorhydrin polymer	ALL IRR	NO	NO	NO
Aluminum silicate	NTO	NO	NO	NO
Clay	NUI	NO	NO	NO
Silica, quartz	CAR LUN IMM	YES	Group1	Yes
DIETHYLENETRIAMINE	ALG EYE IRR	NO	NO	NO
Aluminum Silicate	NTO	NO	NO	NO
TITANIUM DIOXIDE	IRR RES	NO	NO	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO

Abbreviations

N/A Not Applicable	ALG Allergen
CAR Cardiac	CNS Central nervous system
EYE Eyes	IRR Irritant
KID Kidney	LIV Liver
LUN Lung	NTO No Target Organs
NUI Nuisance dust	RES Respiratory
IMM Immune system	

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
 Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
 Skin Contact: Wash thoroughly with soap and water.
 Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

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5. FIRE FIGHTING MEASURES

Flash Point: More than 400øF Method: Open cup
Recommended
Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting
Procedures: Not available
Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors. Oxides of carbon.
Unusual Fire or
Explosion Hazards: None

Explosive Limits:
(% by volume in air)Lower Not available
(% by volume in air)Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case
of spill or leak: Scrape up as much as possible. Store in closed
containers until disposal. Do not store scrap
resin with scrap hardener.

7. HANDLING AND STORAGE

Safe Storage: Store in a cool, dry area.
DO NOT STORE SCRAP RESIN WITH SCRAP HARDENER

Handling: Avoid skin contact. Keep away from eyes.
Avoid prolonged breathing of vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Sufficient to maintain vapor concentration
below TLV.
Respiratory Not available

See Section 2 for Exposure Limits.

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Product Name: LOCTITE WELD BONDING COMPOUND

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Resin: Black paste
Hardener: Beige paste
Odor: Resin: Mild
Hardener: Sulfur
Boiling Point: More than 300°F
pH: Does not apply
Solubility in Water: Insoluble
Specific Gravity: Resin: 1.82
Hardener: 1.75
Volatile Organic Compound 0% (value for resin and hardener together)
Vapor Pressure: Not available
Vapor Density: Not available
Evaporation Rate
(Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Oxidizing agents.
Conditions to Avoid: Not available
Hazardous Decomposition
Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of
disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste
Number: D005 - May be a TCLP waste per 40CFR 261.24/Barium

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14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Unrestricted
Hazard Class or
Division: Unrestricted
Identification Number: None
Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: This product contains a chemical known to the State of California to cause cancer.

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 2
Fire Hazard: 1
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 2
Flammability Hazard: 1
Reactivity Hazards: 0
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

16. OTHER INFORMATION

Prepared by: Regulatory Affairs 2/18/08 Rev 3/3/09, 3/18/10
Company: Henkel Consumer Adhesives
Emergency: 1-800-624-9300
(24hr.) Phone: (440) 937-7000