

HENKEL CONSUMER ADHESIVES

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

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite Metal Concrete  
Item number: 01-81508  
Product Type: Epoxy resin

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	%	Exposure Limits
Epoxy resin		1-10	Not established.
Epoxy resin		0-60	Not established.
Epoxy resin		0-60	Not established.
Modified silicon dioxide	67762-90-7	1-10	TWA: 10 mg/m3 ACGIH total TWA: 3 mg/m3 ACGIH respirable TWA: 6 mg/m3 Other total TWA: 15 mg/m3 OSHA total TWA: 5 mg/m3 OSHA respirable
Calcium carbonate	471-34-1	1-10	TWA: 10 mg/m3 ACGIH total TWA: 15 mg/m3 OSHA total TWA: 5 mg/m3 OSHA respirable
Carbon black	1333-86-4	0.1-1	TWA: 3.5 mg/m3 ACGIH TWA: 3.5 mg/m3 OSHA
Silica, quartz	14808-60-7	20-60	TWA: 0.05 mg/m3 ACGIH respirable TWA: 10 mg/m3 OSHA respirable

3. HAZARDS IDENTIFICATION

\*\*\*EMERGENCY OVERVIEW\*\*\*

PHYSICAL STATE:Liquid. COLOR:Black. ODOR: Mild.

WARNING! MAY CAUSE ALLERGIC SKIN REACTION.  
MAY CAUSE EYE AND SKIN IRRITATION.

Potential Health Effects

Eye:  
Moderate eye irritation. Redness. Excess tearing. Contact with epoxy resin at elevated temperatures may cause thermal burns.

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

MATERIAL SAFETY DATA SHEET

Page 02 of 06

Product Name: Loctite Metal Concrete  
Item No.: 01-81508

Skin:

Allergic skin reaction. Itching. Rash. Mild skin irritation.  
Redness. Contact with epoxy resin at elevated temperatures may cause thermal burns.

Ingestion:

Not expected to be harmful by ingestion.

Inhalation:

High vapor concentrations may irritate nose, throat, and upper respiratory system.

Conditions Aggravated by Exposure:

Skin disorders. Eye disorders. Respiratory disorders Systemic diseases

Chronic:

Detailed information provided in section 11.

4. FIRST AID MEASURES

Eye:

Immediately flush eyes with plenty of water for at least 15 minutes.  
Get medical attention.

Skin:

Immediately flush skin with plenty of water (using soap, if available).  
Remove contaminated clothing and shoes. Wash clothing before reuse.  
Thoroughly clean shoes before reuse. Get medical attention if symptoms occur.

Ingestion:

Keep individual calm. DO NOT induce vomiting. Get medical attention.

Inhalation:

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

Note to Physician:

None.

5. FIRE FIGHTING MEASURES

Flash Point:

CLOSED CUP : Higher than 200.F (93.3.C). Pensky-Martens.

Extinguishing Media:

In case of fire, use water spray (fog), foam, dry chemicals, or CO2.

Flammable Limits:

Not available.

Special Fire Fighting Procedures:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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

## MATERIAL SAFETY DATA SHEET

Page 03 of 06

Product Name: Loctite Metal Concrete  
Item No.: 01-81508

Hazardous Combustion Products:  
Aldehydes. Oxides of carbon. Acrid smoke.  
Unusual Fire or Explosion Hazards:  
None.

## 6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak:  
Soak up with inert absorbent. Store in closed container until disposal.

## 7. HANDLING AND STORAGE

Handling:  
Avoid contact with eyes. Avoid contact with skin and clothing. Wash thoroughly after handling.

Storage:  
Keep container tightly closed. Keep in a cool and well-ventilated area.

For information on product shelf life, contact Loctite Customer Service at 1(800)243-4874

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:  
Use local exhaust ventilation if the potential for airborne exposure exists.

Eye/Face Protection:  
Chemical splash goggles or safety glasses with side shields.

Skin Protection:  
Use chemical resistant, impermeable gloves.

Respiratory Protection:  
Not normally needed. Use a NIOSH approved respirator if the potential for airborne exposure exists.

See Section 2 COMPOSITION/INFORMATION ON INGREDIENTS for exposure limits

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Black.
Material State:	Liquid.
Odor:	Mild.
Boiling point:	Not available.
pH:	Not applicable.
Solubility in Water:	Insoluble
Specific gravity:	1.5849
VOC:	<0.1 g/l (0%)
Vapor Pressure:	Not available.

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

## MATERIAL SAFETY DATA SHEET

Page 04 of 06

Product Name: Loctite Metal Concrete  
Item No.: 01-81508

Vapor density: Not available.  
Evaporation Rate: Not available.

## 10. STABILITY AND REACTIVITY

## Stability:

Stable.

## Conditions to Avoid:

None known

## Incompatibility:

Oxidizing agents, Acids. Strong bases. Amines. Curing agents

## Hazardous Polymerization:

Will not occur.

## Hazardous Decomposition Products:

None known

## 11. TOXICOLOGY INFORMATION

## Product Toxicology Data:

Not available.

Ingredient	NTP	Carcinogen	
		IARC	OSHA
Epoxy resin	No	No	No
Epoxy resin	No	No	No
Epoxy resin	No	No	No
Modified silicon dioxide	No	No	No
Calcium carbonate	No	No	No
Carbon black	No	2B	No
Silica, quartz	1	1	+

## Key to abbreviations:

NTP 1 - Known carcinogen. IARC 2B - Possible carcinogen to human. IARC  
1 - Carcinogenic to human. OSHA + - Proven.

Ingredient	Health Effects/Target organs
Epoxy resin	Allergen. Irritant.
Epoxy resin	Allergen. Irritant.
Epoxy resin	Allergen. Irritant.
Modified silicon dioxide	No target organs.
Calcium carbonate	Nuisance dust.
Carbon black	Respiratory.
Silica, quartz	Lung. Immune system. Some evidence of carcinogenicity.

## 12. ECOLOGICAL INFORMATION

## Ecological Information:

None known

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01/09/02

MATERIAL SAFETY DATA SHEET

Page 05 of 06

Product Name: Loctite Metal Concrete  
Item No.: 01-81508

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal:

Dispose according to EPA and local governmental regulations.

EPA Hazardous Waste Number:

Not applicable.

14. TRANSPORTATION INFORMATION

Domestic Transportation (D.O.T. 49 CFR)-GROUND

Shipping Description:

Not regulated

Exceptions:

Not applicable.

International Air Transportation (ICAO/IATA)-

Shipping description:

Not regulated.

Exceptions:

Not applicable.

Marine pollutant:

None known

15. REGULATORY INFORMATION

SARA Title III Section 313 Chemicals:

None.

SARA Title III Section 311/312:

Immediate health hazard, Delayed health hazard

Toxic Substances Control Act:

All components are listed on or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA Section 12(b) annual:

None.

TSCA Section 12(b) one time:

None.

Canadian Inventory Status:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

California Proposition 65:

This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm. (Phenyl glycidyl ether, Toluene).

16. OTHER INFORMATION

NFPA Code:

Health: 2  
Flammability: 1  
Reactivity: 0  
Special: None

HENKEL CONSUMER ADHESIVES

08/22/00

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

MATERIAL SAFETY DATA SHEET

Page 06 of 06

Product Name: Loctite Metal Concrete  
Item No.: 01-81508

HMIS Code:

Health: 2 \*  
Flammability: 1  
Reactivity: 0  
Protective Equipment: See Section 8.

Prepared by:

Company: Safety, Health and Regulatory Affairs - North America,  
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067  
(24hr.) Phone: (860) 571-5100

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

## MATERIAL SAFETY DATA SHEET

Page 01 of 06

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite Metal Concrete  
Item number: 01-81508  
Product Type: Epoxy Hardener

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	%	Exposure Limits
Polymercaptan hardener		40-60	Not established.
Silica, quartz	14808-60-7	40-60	TWA: 0.05 mg/m3 ACGIH respirable TWA: 10 mg/m3 OSHA respirable
Titanium dioxide	13463-67-7	1-5	TWA: 10 mg/m3 ACGIH TWA: 15 mg/m3 OSHA total
Substituted phenol		1-5	Not established.
Modified silicon dioxide	67762-90-7	1-5	TWA: 10 mg/m3 ACGIH total TWA: 3 mg/m3 ACGIH respirable TWA: 6 mg/m3 Other total TWA: 15 mg/m3 OSHA total TWA: 5 mg/m3 OSHA respirable
Calcium carbonate	471-34-1	1-5	TWA: 10 mg/m3 ACGIH total TWA: 15 mg/m3 OSHA total TWA: 5 mg/m3 OSHA respirable

## 3. HAZARDS IDENTIFICATION

\*\*\*\*EMERGENCY OVERVIEW\*\*\*\*

PHYSICAL STATE:Liquid. COLOR:Amber. ODOR: Mild.

CAUTION! MAY CAUSE EYE, SKIN, AND RESPIRATORY TRACT IRRITATION.

## Potential Health Effects

## Eye:

Mild eye irritant.

## Skin:

Mild skin irritation. Redness.

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

MATERIAL SAFETY DATA SHEET

Page 02 of 06

Product name: Loctite Metal Concrete  
Item number: 01-81508

Ingestion:  
Toxicity by ingestion is not likely to occur.

Inhalation:  
Mild respiratory tract irritation. Coughing.

Conditions Aggravated by Exposure:  
Skin disorders.

Chronic:  
Detailed information provided in section 11.

4. FIRST AID MEASURES

Eye:  
Immediately flush eyes with plenty of water for at least 15 minutes.  
Get medical attention.

Skin:  
Wash thoroughly with soap and water. Get medical attention if  
irritation develops and persists.

Ingestion:  
Keep individual calm. DO NOT induce vomiting. Get medical attention.

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

Note to Physician:  
None.

5. FIRE FIGHTING MEASURES

Flash Point:  
CLOSED CUP : Higher than 200.F (93.3.C). Pensky-Martens.

Extinguishing Media:  
In case of fire, use water spray (fog), foam, dry chemicals, or CO2.

Flammable Limits:  
Not available.

Special Fire Fighting Procedures:  
Fire fighters should wear positive pressure self-contained breathing  
apparatus (SCBA) and full turnout gear.

Hazardous Combustion Products:  
Oxides of carbon. Ammonia. Aldehydes. Ketones. Oxides of nitrogen.

Unusual Fire or Explosion Hazards:  
None.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak:  
Soak up with inert absorbent. Store in closed container until  
disposal.

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

## MATERIAL SAFETY DATA SHEET

Page 03 of 06

Product name: Loctite Metal Concrete  
Item number: 01-81508

## 7. HANDLING AND STORAGE

## Handling:

Avoid contact with eyes. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Wash thoroughly after handling.

## Storage:

Keep container tightly closed. Keep in a cool and well-ventilated area. Do not store above 100.F (37.8.C)

For information on product shelf life, contact Loctite Customer Service at 1(800)243-4874

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Engineering Controls:

Not normally needed. Use local exhaust ventilation if the potential for airborne exposure exists.

## Eye/Face Protection:

Chemical splash goggles or safety glasses with side shields.

## Skin Protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

## Respiratory Protection:

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

See Section 2 COMPOSITION/INFORMATION ON INGREDIENTS for exposure limits

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Amber.  
Material State: Liquid.  
Odor: Mild.  
Boiling point: Not available.  
pH: Not applicable.  
Solubility in Water: Slightly soluble  
Specific gravity: 1.6098  
VOC: 11.1 g/l (0.7%)  
Vapor Pressure: Not available.  
Vapor density: Not available.  
Evaporation Rate: Not available.

## 10. STABILITY AND REACTIVITY

## Stability:

Stable.

## Conditions to Avoid:

None known

AVON, OH 44011  
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## MATERIAL SAFETY DATA SHEET

Page 04 of 06

Product name: Loctite Metal Concrete  
Item number: 01-81508

## Incompatibility:

Oxidizing agents. Nitrites. Alkalis Reacts violently with Strong acids.

## Hazardous Polymerization:

Will not occur.

## Hazardous Decomposition Products:

None known

## 11. TOXICOLOGY INFORMATION

## Product Toxicology Data:

Not available.

Ingredient	NTP	Carcinogen	
		IARC	OSHA
Polymercaptan hardener	No	No	No
Silica, quartz	1	1	+
Titanium dioxide	No	No	No
Substituted phenol	No	No	No
Modified silicon dioxide	No	No	No
Calcium carbonate	No	No	No

## Key to abbreviations:

NTP 1 - Known carcinogen. IARC 1 - Carcinogenic to human. OSHA + - Proven.

Ingredient	Health Effects/Target organs
Polymercaptan hardener	Not available.
Silica, quartz	Lung. Immune system. Some evidence of carcinogenicity.
Titanium dioxide	Irritant. Respiratory.
Substituted phenol	Irritant. Allergen.
Modified silicon dioxide	No target organs.
Calcium carbonate	Nuisance dust.

## 12. ECOLOGICAL INFORMATION

## Ecological Information:

None known

## 13. DISPOSAL CONSIDERATIONS

## Recommended Method of Disposal:

Dispose according to EPA and local governmental regulations.

## EPA Hazardous Waste Number:

Not applicable.

MATERIAL SAFETY DATA SHEET

Product name: Loctite Metal Concrete  
Item number: 01-81508

14. TRANSPORTATION INFORMATION

Domestic Transportation (D.O.T. 49 CFR)-GROUND

Shipping Description:  
Not regulated

Exceptions:  
Not applicable.

International Air Transportation (ICAO/IATA)-

Shipping description:  
Not regulated.

Exceptions:  
Not applicable.

Marine pollutant:  
None known

15. REGULATORY INFORMATION

SARA Title III Section 313 Chemicals:  
None.

SARA Title III Section 311/312:  
None.

Toxic Substances Control Act:  
All components are listed on or are exempt from listing on the Toxic  
Substances Control Act Inventory.

TSCA Section 12(b) annual:  
None.

TSCA Section 12(b) one time:  
None.

Canadian Inventory Status:  
All components are listed on or are exempt from listing on the Canadian  
Domestic Substances List.

California Proposition 65:  
This product contains no chemicals known to the state of California to  
cause cancer, birth defects, or other reproductive harm.

16. OTHER INFORMATION

NFPA Code:  
Health: 2  
Flammability: 1  
Reactivity: 0  
Special: None

HMIS Code:  
Health: 2  
Flammability: 1  
Reactivity: 0  
Protective Equipment: See Section 8.

HENKEL CONSUMER ADHESIVES

08/22/00

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MATERIAL SAFETY DATA SHEET

Page 06 of 06

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