

LOCTITE CORPORATION

12/10/98

ROCKY HILL, CONNECTICUT 06067  
EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

Page 01 of 05

Form-A-Gasket(R) Sealant, High Temp. Silicone  
81164

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: 81164  
Part No.: 26B  
Product Type: Silicone

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Poly(dimethylsiloxane), dimethyl	63148-62-9	80-85
SILICA, AMORPHOUS	7631-86-9	10-15
Methyltriacetoxysilane	4253-34-3	1-5
IRON OXIDE	1309-37-1	1-5
ACETIC ACID	64-19-7	***

\*\*\*When this product is exposed to moisture, 1-5% acetic acid is formed.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
SILICA, AMORPHOUS	10mg/m3 TWA	6mg/m3 TWA	None
IRON OXIDE	5 mg/M3 (Fe)	10 mg/M3 (Fe) particulate	None
ACETIC ACID	10 ppm TWA 25 mg/m3	10 ppm TWA 25 mg/m3	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
ACETIC ACID	15 ppm 37 mg/m3	None	

3. HAZARDS IDENTIFICATION

Toxicity: Eye and skin irritant. Oral LD50 = 2060 mg/kg. When heated to temperatures above 300°F (150°F) in the presence of air, this product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate eyes, nose and throat. Safe handling conditions may be maintained

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MATERIAL SAFETY DATA SHEET

Page 02 of 05

Item No.: 81164

3. HAZARDS IDENTIFICATION (continued)

by keeping vapor concentrations below the OSHA permissible limit for formaldehyde.  
 Primary Routes of Entry: None known  
 Signs and Symptoms of Exposure: Acetic acid produced during cure irritates eyes, nose, and throat.  
 Existing Conditions Aggravated by Exposure: Methyltriacetoxysilane: Eye, skin, and pulmonary disorders.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Poly(dimethylsiloxane), dimethyl	IRR	NO	NO	NO
SILICA, AMORPHOUS	NUI	NO	N/A	NO
Methyltriacetoxysilane	No Data	NO	NO	NO
IRON OXIDE	AC4 ALG LUN	NO	N/A	NO
ACETIC ACID	COR EYE GAS IMM IRR	NO	NO	NO

Abbreviations

N/A Not Applicable AC4 ACGIH-Unclassifiable as human carc.  
 ALG Allergen COR Corrosive  
 EYE Eyes GAS Gastrointestinal  
 IMM Immune system IRR Irritant  
 LUN Lung NUI Nuisance dust

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.  
 Inhalation: Remove to fresh air. Treat symptomatically.  
 Skin Contact: Wipe off paste with paper towel or cloth. Wash exposed area with soap and water.  
 Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200°F Method: Tag Closed Cup  
 Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical  
 Special Firefighting Procedures: Not available

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MATERIAL SAFETY DATA SHEET Page 03 of 05

Item No.: 81164

5. FIRE FIGHTING MEASURES (continued)

Hazardous Products formed by Fire or Thermal Decomp Acetic acid, formaldehyde, silica fume.

Unusual Fire or  
Explosion Hazards: None

Explosive Limits:  
(% by volume in air)Lower Acetic acid: 4%  
(% by volume in air)Upper Acetic acid: 19.9% at 200°F

#### 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case  
of spill or leak: Wipe or scrape up spilled material. Maintain  
good ventilation for large spills. Place scrap  
material in a well ventilated place and allow to  
cure to rubber.

#### 7. HANDLING AND STORAGE

Safe Storage: Store in a dry area below 90°F. Keep container  
closed when not in use.  
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)  
Handling: Avoid breathing vapor. Avoid eye or skin contact.  
Acetic acid vapor released during application and  
cure. do not wear contact lenses while applying  
material. Vapor may be trapped under lens.

#### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.  
Skin: Rubber or plastic gloves.  
Ventilation: Provide local ventilation for prolonged use in  
confined area.  
Respiratory Not available

See Section 2 for Exposure Limits.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red paste  
Odor: Sharp, Irritating  
Boiling Point: Not Applicable, Polymeric material  
pH: Does not apply  
Solubility in Water: Not available  
Specific Gravity 1.05  
Volatile Organic Compound  
(EPA Method 24) 4.8%  
Vapor Pressure: 10mm at 80°F

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MATERIAL SAFETY DATA SHEET

Page 04 of 05

Item No.: 81164

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

(continued)

Vapor Density: Not available  
Evaporation Rate  
(Ether = 1) Not available

#### 10. STABILITY AND REACTIVITY

Stability: Stable  
Hazardous Polymerization: Will not occur  
Incompatibility: Polymerized by contact with moisture. Acetic acid liberated.  
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: NH - Not a RCRA Hazardous Waste Material

## 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: No Prop65 chemicals are known to be present.

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MATERIAL SAFETY DATA SHEET

Page 05 of 05

Item No.: 81164

## 16. OTHER INFORMATION

## Estimated NFPA(R) Code:

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

## Estimated HMIS(R) Code:

Health Hazard: 1\*  
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.

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