

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

LOCTITE CORPORATION

12/10/98

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

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

LOCTITE CORPORATION 12/10/98
 ROCKY HILL, CONNECTICUT 06067
 EMERGENCY PHONE: (860) 571-5100

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

LOCTITE CORPORATION

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

12/10/98

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.

LOCTITE CORPORATION

12/10/98

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

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.

Prepared By: Stephen Repetto
Title: Research Chemist- Safety, Health & Regulatory Affairs
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(24hr.) Phone: (860) 571-5100
Revision Date: April 15, 1997 Revision: 0003

[application assistance](#) . [browse catalog](#) . [distributor locator](#) . [datasheets](#) . [what's new](#)
[about loctite](#) . [contact loctite](#) . [literature](#) . [loctite world wide](#) . [search](#) . [home](#)

copyright © 1997-1998 Loctite