

LOCTITE CORPORATION

02/24/02

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

MATERIAL SAFETY DATA SHEET

Page 01 of 05

Loctite(R) Pneumatic/Hydraulic 545 Thread Sealant
54531

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Loctite(R) Pneumatic/Hydraulic 545 Thread Sealant
Item No.: 54531
Product Type: Anaerobic

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Polyglycol dioctanoate	18268-70-7	40-45
Polyglycol dimethacrylate	25852-47-5	20-25
Hydroxyalkyl methacrylate	868-77-9	20-25
CUMENE HYDROPEROXIDE*	80-15-9	3-5
N,N-Dialkyltoluidines	613-48-9	1-3
1-Acetyl-2-phenylhydrazine	114-83-0	0.1-1
MALEIC ACID	110-16-7	0.1-1
Saccharin	81-07-2	0.1-1
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	0.1-1

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Hydroxyalkyl methacrylate	None	None	3 ppm ceiling
CUMENE HYDROPEROXIDE	None	None	1ppm(6mg/m3) Skin(WHEEL)
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA resp. dust

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)

3. HAZARDS IDENTIFICATION

Toxicity: Estimated Oral LD50 greater than 5000 mg/kg.
Estimated Dermal LD50 greater than 2000 mg/kg.
Primary Routes of Entry: Not Available
Signs and Symptoms of Exposure: May cause dermatitis on prolonged contact in sensitive individuals

LOCTITE CORPORATION

02/24/02

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

MATERIAL SAFETY DATA SHEET

Page 02 of 05

Product Name: Loctite(R) Pneumatic/Hydraulic 545 Thread Sealant

Item No.: 54531

3. HAZARDS IDENTIFICATION (continued)

Existing Conditions
 Aggravated by Exposure: None known

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Polyglycol dioctanoate	IRR	NO	NO	NO
Polyglycol dimethacrylate	ALG IRR	NO	NO	NO
Hydroxyalkyl methacrylate	ALG IRR	NO	NO	NO
CUMENE HYDROPEROXIDE	ALG CNS COR IRR MUT	NO	NO	NO
N,N-Dialkyltoluidines	NTO	NO	NO	NO
1-Acetyl-2-phenylhydrazine	ALG BLO KID MUT SOM	NO	NO	NO
MALEIC ACID	IRR KID	NO	NO	NO
Saccharin	NTO	NO	N/A	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO

Abbreviations

N/A Not Applicable	ALG Allergen
BLO Blood	CNS Central nervous system
COR Corrosive	IRR Irritant
KID Kidney	MUT Mutagen
NTO No Target Organs	NUI Nuisance dust
SOM Some evidence of carcinogenicity	

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
 Inhalation: Not Applicable
 Skin Contact: Flush with water.
 Eye Contact: Flush with water.

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
 Hazardous Products formed
 by Fire or Thermal Decomp Irritating organic vapors.
 Unusual Fire or
 Explosion Hazards: None

LOCTITE CORPORATION 02/24/02

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

MATERIAL SAFETY DATA SHEET Page 03 of 05

Product Name: Loctite(R) Pneumatic/Hydraulic 545 Thread Sealant
 Item No.: 54531

5. FIRE FIGHTING MEASURES (continued)

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

(% by volume in air)Upper Not Applicable

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case

of spill or leak: Soak up in an inert absorbent. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage: Store below 100°F
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
Handling: Avoid prolonged skin contact.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles recommended.
Skin: Rubber or plastic gloves recommended.
Ventilation: Not Applicable
Respiratory: Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Purple liquid
Odor: Mild
Boiling Point: More than 300°F
pH: Not Applicable
Solubility in Water: Slight
Specific Gravity: Approximately 1.02 at 80°F
Volatile Organic Compound (EPA Method 24) 31.5%; 321 grams per liter
Vapor Pressure: Less than 5mm at 80°F
Vapor Density: Not Available
Evaporation Rate (Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will Not Occur
Incompatibility: None
Conditions to Avoid: Not available
Hazardous Decomposition Products (non-thermal): None

LOCTITE CORPORATION

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

02/24/02

MATERIAL SAFETY DATA SHEET

Page 04 of 05

Product Name: Loctite(R) Pneumatic/Hydraulic 545 Thread Sealant
Item No.: 54531

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: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
 Ethylene Oxide

This product contains Saccharin. No Prop65 hazard warning is necessary if this product is used as reasonably anticipated.

16. OTHER INFORMATION

Estimated NFPA(R) Code:
 Health Hazard: 1
 Fire Hazard: 1
 Reactivity Hazard: 1
 Specific Hazard: Does not apply

Estimated HMIS(R) Code:

LOCTITE CORPORATION

02/24/02

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

MATERIAL SAFETY DATA SHEET

Page 05 of 05

Product Name: Loctite(R) Pneumatic/Hydraulic 545 Thread Sealant
 Item No.: 54531

16. OTHER INFORMATION

(continued)

Health Hazard: 1
 Flammability Hazard: 1
 Reactivity Hazards: 1
 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: October 13, 2000 Revision: 0028

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

copyright © 1997-2000 Loctite