

LOCTITE CORPORATION

10/20/98

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

MATERIAL SAFETY DATA SHEET

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Permatex(R) Copper Form-a-Gasket(R) Sealant
80696

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: 80696
Part No.: 101H
Product Type: Sealant

2. COMPOSITION, INFORMATION ON INGREDIENTS

| Ingredients | CAS No. | % |
|------------------|-------------|---------|
| ACETONE | 67-64-1 | 65-70 |
| Synthetic rubber | 9003-18-3 | 10-15 |
| Phenolic resin | Proprietary | 10-15 |
| COPPER* | 7440-50-8 | 3-5 |
| ZINC OXIDE* | 1314-13-2 | 0.1-0.5 |

* 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 |
|--------------------------------------|-------------------------------|---------------------------------|-------|
| ACETONE | 500 ppm TWA 1188 mg/m3 | 750 ppm TWA 1800 mg/m3 | None |
| COPPER | 1 mg/m3 dust | 1 mg/m3 dust | None |
| ZINC OXIDE | 5 mg/m3 fume 10 mg/m3 dust | 10 mg/m3 dust 5 mg/m3 respir | None |

| Exposure Limits (STEL) Ingredients | ACGIH (TLV) | OSHA (PEL) |
|---------------------------------------|-----------------------|------------------------|
| ACETONE | 750 ppm 1782 mg/m3 | 1000 ppm 2400 mg/m3 |
| ZINC OXIDE | 10 mg/m3 fume | 10 mg/m3 fume |

3. HAZARDS IDENTIFICATION

Toxicity: Eye irritant. Moderately toxic by ingestion and inhalation.
Primary Routes of Entry: Skin, ingestion, inhalation.
Signs and Symptoms of Exposure: Headache, nausea, dizziness, irritation of mucous membranes. Liquid may cause eye injury and may cause dermatitis.
Existing Conditions Aggravated by Exposure: None known

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3. HAZARDS IDENTIFICATION (continued)

| Ingredients | Literature Referenced Target Organ and Other Health Effects | Carcinogen | | |
|------------------|--|------------|------|------|
| | | NTP | IARC | OSHA |
| ACETONE | AC4 BLO CNS IRR | NO | NO | NO |
| Synthetic rubber | No Data | NO | NO | NO |
| Phenolic resin | No Data | NO | NO | NO |
| COPPER | BLO CNS GAS IMM IRR KID LIV MUT SEN SKI | NO | NO | NO |
| ZINC OXIDE | BLO GAS IMM IRR KID PAN RES SKI | NO | NO | NO |

Abbreviations

AC4 ACGIH-Unclassifiable as human carc. BLO Blood
 CNS Central nervous system GAS Gastrointestinal
 IMM Immune system IRR Irritant
 KID Kidney LIV Liver
 MUT Mutagen PAN Pancreas
 RES Respiratory SEN Sensory
 SKI Skin

ADDITIONAL INFORMATION:

Inhalation of phenolic resin dust has been shown to cause pulmonary effects.
 It is our best technical judgment that, with proper precautions, normal use of the is product poses no such hazards.

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 with soap and water.
 Eye Contact: Flush with water for at least 15 minutes. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: Approximately -4°F Method: Open Cup
 Recommended
 Extinguishing Agents: Carbon dioxide, foam, dry chemical
 Special Firefighting
 Procedures: Not available
 Hazardous Products formed
 by Fire or Thermal Decomp Metal fumes

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5. FIRE FIGHTING MEASURES (continued)

Unusual Fire or

Explosion Hazards: None

Explosive Limits:
 (% by volume in air)Lower Approximately 2%
 (% by volume in air)Upper Approximately 13%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Remove sources of ignition. Allow solvent to evaporate with adequate ventilation. Scrape up remainder and store in a closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage: Store away from heat or flame.
 (Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
 Handling: Avoid prolonged breathing of vapors. Keep away from eyes. Avoid skin contact. Do not use near heat or flame.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
 Skin: Impervious rubber or plastic gloves.
 Ventilation: Sufficient to maintain vapor concentration below TLV.
 Respiratory: Not available
 See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown liquid
 Odor: Acetone
 Boiling Point: Approximately 133°F
 pH: Does not apply
 Solubility in Water: Slightly
 Specific Gravity: 0.91 at 60°F
 Volatile Organic Compound (EPA Method 24) 65.9%
 Vapor Pressure: 400mm at 100°F
 Vapor Density: 2.0
 Evaporation Rate (Ether = 1) Not available

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10. STABILITY AND REACTIVITY

Stability: Stable
 Hazardous Polymerization: Will not occur
 Incompatibility: Strong oxidizers.
 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: D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Consumer Commodity (Not more than one liter);
Resin solution (More than one liter)

Hazard Class or Division: ORM-D (Not more than one liter);
Class 3, Packing Group II (More than one liter)

Identification Number: None (Not more than one liter);
UN 1866 (More than one liter)

Marine Pollutant: None

IATA

Proper Shipping Name: Resin Solution
Class or Division: Class 3, Packing Group II
UN or ID Number: UN 1866

15. REGULATORY INFORMATION

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

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16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 2
Fire Hazard: 3
Reactivity Hazard: 1
Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 2
Flammability Hazard: 3
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
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