

Balkamp Ultra Copper RTV Silicone Gasket Maker

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MATERIAL SAFETY DATA SHEET

Effective Date: 10-23-95 Revision Date: 11-17-99

Balkamp Ultra Copper RTV Silicone Gasket Maker

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Section 1 - Product and Company Identification

PRODUCT NAME: Balkamp Ultra Copper RTV Silicone Gasket Maker

MANUFACTURER'S NAME: EMERGENCY TELEPHONE NUMBER

Permatex, Inc. (877)376-2839

Hartford, CT 06106 MISCELLANEOUS INFORMATION

(860)571-5100

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Section 2 - Hazardous Ingredients

Ingredients CAS No. %

- Poly(dimethylsiloxane), hydroxy terminated 70131-67-8 55-60
Poly(dimethylsiloxane), dimethyl 63148-62-9 20-25
Modified silicon dioxide 68611-44-9 5-10
Vinyl oximinosilane 2224-33-1 5-10
IRON OXIDE 1309-37-1 1-3
SILICA, MICA 12001-26-2 1-3
Substituted urea 23843-64-3 1-3
Methyl ethyl ketoxime Proprietary \*\*\*

\*\*\*When this product is exposed to moisture, 5-10% methylethylketoxime may be formed.

Ingredients which have exposure limits

Exposure Limits (TWA) ACGIH OSHA OTHER

Ingredients (TLV) (PEL)

- Modified silicon dioxide 10 mg/m3 6 mg/m3 6 mg/m3
IRON OXIDE 5 mg/M3 (Fe) 10 mg/M3 (Fe) None
particulate
SILICA, MICA 3 mg/m3 TWA 3 mg/m3 TWA None
respirable dust respirable dust
Methyl ethyl ketoxime None None 10 ppm TWA

Exposure Limits (STEL) ACGIH OSHA

Ingredients (TLV) (PEL)

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Section 3 - Hazards Identification

Toxicity: Eye and skin irritant. May be irritating by inhalation. Moderately toxic by ingestion. When heated to temperatures above 300 deg. F (150 deg. 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 by keeping vapor concentrations below the OSHA permissible limit for formaldehyde.  
Primary Routes of Entry: Skin or eye contact; inhalation; ingestion.  
Signs and symptoms of Exposure: Methyl ethyl ketoxime and methanol vapors produced during cure are toxic and irritates eyes, nose, and throat.  
Existing Conditions  
Aggravated by Exposure: Mica: respirable conditions.

Literature Referenced Carcinogen  
Ingredients Target Organ and Other Health Effects NTP IARC  
OSHA

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Poly(dimethylsiloxane),  
hydroxy terminated No Data NO NO NO  
Poly(dimethylsiloxane),  
dimethyl IRR NO NO NO  
Modified silicon dioxide No Data NO NO NO  
Vinyl oximinasilane No Data NO NO NO  
IRON OXIDE AC4 ALG LUN NO N/A  
NO  
SILICA, MICA LUN NO NO NO  
Substituted urea No Data NO NO NO  
Methyl ethyl ketoxime ALG BLO CNS IRR NO NO NO  
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Abbreviations

N/A Not Applicable AC4 ACGIH-Unclassified as human carc  
ALG Allergen BLO Blood  
CNS Central nervous system IRR Irritant  
LUN Lung

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Section 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: Wipe off paste with paper towel or cloth. Wash with soap and water.  
Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

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Section 5 - Firefighting Measures

Flash Point: More than 200 Deg. F Method: Tag Closed Cup  
Recommended  
Extinguishing Agents: Carbon dioxide, foam, dry chemical  
Hazardous Products formed  
by Fire or Thermal Decomp Formaldehyde, silica fume, oxides of carbon.  
Unusual Fire or  
Explosion Hazards: None

Explosive Limits:  
(% by volume in air)Lower Ferric oxide: 2.6%  
(% by volume in air)Upper Ferric oxide: 12.5%

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Section 6 - Environmental 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.

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Section 7 - Handling and Storage

Safe Storage: Store in a dry area below 90 Deg. F.  
Keep container closed when not in use.

(Contact Loctite Customer Service 1-800-243-4874 for shelf Life information)

Handling: Avoid skin or eye contact. Keep away from eyes.  
Avoid prolonged breathing of vapors.

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Section 8 - Exposure Controls/Personal Protection

Eyes: Safety glasses or goggles.  
Skin: Rubber or plastic gloves.  
Ventilation: Sufficient to maintain vapor concentration  
below TLV.

See Section 2 for Exposure Limits.

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Section 9 - Physical and Chemical Properties

Appearance: Copper paste  
Odor: Mild  
Boiling Point: Not Applicable, Polymeric  
pH: 7-8  
Solubility in Water: Polymerized  
Specific Gravity 1.05  
Volatile Organic Compound  
(EPA Method 24) 5.3%; 56 grams per liter  
Vapor Pressure: Less than 5mm at 70 Deg. F  
Vapor Density: 3.0  
Evaportation Rate  
(Ether = 1) Not available

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Section 10 - Stability and Reactivity

Stability: Stable  
Hazardous Polymerization: Will not occur  
Incompatibility: Strong oxidizers. Polymerized by contact with moisture.  
Hazardous Decomposition  
Products (non-thermal): Methyl ethyl ketoxime

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Section 11 - Toxicological Information

See Section 3.

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Section 12 - Ecological Information

No data available

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Section 13 - Disposal Considerations

Recommended methods of disposal: Cured rubber can be incinerated following EPA and local regulations.

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Section 14 - Transport 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

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Section 15 - Regulatory Information

CA Proposition 65: Warning: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.  
toluene

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Section 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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