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## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name:** 101BR SENSOR SAFE ULTRA COPPER SILICONE HIGH TEMP RTV 3 OZ  
**Item No:** 81878  
**Product Type:** Silicone

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH; TLV-TWA	OSHA PEL
POLY (DIMETHYLSILOXANE), HYDROXY TERMINATED 70131-67-8	50-70	Not listed	Not listed
POLYDIMETHYLSILOXANE 63148-62-9	20-40	Not listed	Not listed
MODIFIED SILICON DIOXIDE 68611-44-9	<10	Not listed	Not listed
VINYL OXIMINOSILANE 2224-33-1	<7	Not listed	Not listed
IRON OXIDE 1309-37-1	<3	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
SILICA, MICA 12001-26-2	<3	3 mg/m <sup>3</sup>	20 mppcf
2-BUTANONE OXIME 96-29-7	0.5-2.0	Not listed	Not listed

### 3. HAZARDS IDENTIFICATION

**Toxicity:** May cause eye and skin irritation. When this product is exposed to moisture, butanone oxime may be formed. May be harmful if swallowed. May irritate lips, gums, tongue, mouth, nose and throat. Note: This product does not contain microcrystalline silica.

**Primary Routes of Entry:** Eye and skin contact, ingestion, inhalation

**Signs and Symptoms of Exposure:** Butanone oxime produced during curing is toxic and irritates eyes, nose and throat. Overexposure to the silane may cause coma and respiratory failure.

Component	Weight%	NTP	ACGIH Carcinogens	IARC Carcinogen
IRON OXIDE 1309-37-1	<3		A4 - Not Classifiable	Group 3, Supplement 7 1987; Monograph 1 1972

**Aggravated Medical Condition:** Persons with respiratory problems such as emphysema and asthma should avoid inhalation.

### 4. FIRST AID MEASURES

**Ingestion:** Rinse mouth. Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Obtain medical attention.

**Skin Contact:** Wipe off material with paper towel or cloth. Wash off with soap and water. If skin irritation persists, call a physician.

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

### 5. FIRE FIGHTING MEASURES

**Flash Point °F(°C):** >200°F TCC

**Recommended Extinguishing Media:** Carbon Dioxide, Dry Chemicals, Foam.

**Special Fire-Fighting Procedures:** Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool.

**Hazardous Products of Combustion:** Oxides of nitrogen, Oxides of carbon, Methyl ethyl ketone, possibly methyl ethyl ketoxime, Silica fume, Formaldehyde

**Unusual Fire/Explosion Hazards:** None.

## 5. FIRE FIGHTING MEASURES

**Lower Explosive Limit:** n/d  
**Upper Explosive Limit:** n/d

## 6. ACCIDENTAL RELEASE MEASURES

**Spill Procedures:** Wipe or scrape up spill material. Maintain good ventilation for large spills. Place scrap material in a well-ventilated area and allow to cure to rubber. Clean up spills thoroughly as residue is slippery.

## 7. HANDLING AND STORAGE

**Storage:** Store in a dry area below 90 degrees F. Keep container closed when not in use.  
**Handling:** Avoid contact with skin and eyes. Do not wear contact lenses. Do not inhale vapors. Wash hands before eating and smoking.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eyes:** Safety glasses.  
**Skin:** Neoprene or nitrile gloves recommended.  
**Ventilation:** General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.  
**Respiratory Protection:** An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.  
**Comments:** When heated to temperatures above 300 degrees 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. Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Copper-colored paste  
**Odor:** Mild  
**Boiling Point:** Not applicable, polymeric material  
**pH:** 7-8  
**Solubility in Water:** Polymerized  
**Specific Gravity:** 1.05  
**VOC(Wt.%):** <3%; <31 g/l  
**Vapor Pressure:** <5 mm Hg @ 80°F  
**Vapor Density (Air=1):** 3.0  
**Evaporation Rate:** n/d

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable at normal conditions  
**Hazardous Polymerization:** Will not occur  
**Incompatibilities:** Polymerized by contact with moisture, Strong oxidizers, Acids, Iron  
**Conditions to Avoid:** Exposure to moisture  
**Hazardous Products of Combustion:** Oxides of nitrogen, Oxides of carbon, Methyl ethyl ketone, possibly methyl ethyl ketoxime, Silica fume, Formaldehyde

## 11. TOXICOLOGICAL INFORMATION

See Section 3

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

**Recommended Method of Disposal:** Disposal should be made in accordance with federal, state and local regulations.  
**US EPA Waste Number:** NH - Not a RCRA Hazardous Waste Material

## 14. TRANSPORTATION INFORMATION

**DOT (49CFR 172)**  
**U.S. Department of Transportation - DOT - 49 CFR (Ground)**  
**DOT Shipping Name:** Not regulated

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**Item No.** 81878

#### 14. TRANSPORTATION INFORMATION

**Hazard Class:** None  
**UN/ID Number:** None

##### IATA (Air)

**Proper Shipping Name:** Not regulated  
**Class or Division:** None  
**UN/ID Number:** None

##### IMDG (Vessel)

**Proper Shipping Name:** Not regulated  
**Hazard Class:** None  
**UN Number:** None  
  
**Marine Pollutant:** None

#### 15. REGULATORY INFORMATION

**SARA 313 Chemicals:** The following component(s) is listed as a SARA Section 313 Toxic Chemical.

NONE

**California Proposition 65:** No California Prop 65 chemicals are known to be present at or above the No Significant Risk Level

**TSCA Inventory Status:** All components of this product are listed (or exempt) on the EPA TSCA inventory.

#### 16. OTHER INFORMATION

**Estimated NFPA Rating:** HEALTH 1, FLAMMABILITY 1, REACTIVITY 0.

**Estimated HMIS Classification:** HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0

(NFPA is a registered trademark of the National Fire Protection Association)

(HMIS is a registered trademark of the National Paint and Coatings Association)

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