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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),<br>HYDROXY TERMINATED<br>70131-67-8 | 50-70   | Not listed               | Not Listed               |
| POLYDIMETHYLSILOXANE<br>63148-62-9                           | 20-40   | Not listed               | Not Listed               |
| MODIFIED SILICON DIOXIDE<br>68611-44-9                       | <10     | Not listed               | Not Listed               |
| VINYL OXIMINOSILANE<br>2224-33-1                             | <7      | Not listed               | Not Listed               |
| IRON OXIDE<br>1309-37-1                                      | <3      | 5 mg/m <sup>3</sup> (Fe) | 10 mg/m <sup>3</sup> TWA |
| SILICA, MICA<br>12001-26-2                                   | <3      | 3 mg/m <sup>3</sup>      | 20 mppcf TWA             |
| 2-BUTANONE OXIME<br>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  |
|-------------------------|---------|-----|-----------------------|---|
| IRON OXIDE<br>1309-37-1 | <3      |     | A4 - Not Classifiable | Group 3, Supplement 7 1987;<br>Monograph 1 1972 |

**Medical Conditions Recognized as Being Aggravated by Exposure:** Persons with respiratory problems such as emphysema and asthma should avoid inhalation.

### 4. FIRST AID MEASURES

**Ingestion:** Rinse mouth. If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. 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, Methyl ethyl ketone, possibly methyl ethyl ketoxime, Silica fume, Oxides of carbon, Formaldehyde

## **5. FIRE FIGHTING MEASURES**

**Unusual Fire/Explosion Hazards:** None

**Lower Explosive Limit:** Iron oxide: 2.6  
**Upper Explosive Limit:** Iron oxide: 12.5

## **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.

## **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:** Not required under normal use. 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 Content(Wt.%):** <4%  
**Vapor Pressure:** <5 mm Hg @ 80°F  
**Vapor Density (Air=1):** 3.0  
**Evaporation Rate:** Not Determined

## **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, Methyl ethyl ketone, possibly methyl ethyl ketoxime, Silica fume, Oxides of carbon, 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)**  
**Domestic Ground Transport**

**Product Name:** 101BR SENSOR SAFE ULTRA COPPER  
SILICONE HIGH TEMP RTV 3 OZ

**Item No:** 81878

#### **14. TRANSPORTATION INFORMATION**

**DOT Shipping Name:** Unrestricted  
**Hazard Class:** None  
**UN/ID Number:** None

#### **IATA**

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

#### **IMDG**

**Proper Shipping:** Unrestricted  
**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 PROP 65:**

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

#### **TSCA Inventory Status:**

**Listed on Inventory:** YES 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 Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

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