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*Balderson  
 KIT*

## 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

Ingredients	Percent	ACGIH 8 Hr. TWA:	OSHA 8 Hr. TWA:
POLY (DIMETHYLSILOXANE), HYDROXY TERMINATED 70131-67-8	55-65	Not Listed	Not Listed
POLYDIMETHYLSILOXANE 63148-62-9	15-25	Not Listed	Not Listed
MODIFIED SILICON DIOXIDE 68611-44-9	1-10	Not Listed	Not Listed
VINYL OXIMINOSILANE 2224-33-1	1-10	Not Listed	Not Listed
IRON OXIDE 1309-37-1	1-10	5 mg/m <sup>3</sup> (Fe)	10 mg/m <sup>3</sup> (Fe) particulate
SILICA, MICA 12001-26-2	1-10	3 mg/m <sup>3</sup> TWA	20 mppcf
2-BUTANONE OXIME 96-29-7	****	Not Listed	Not Listed

### 3. HAZARDS IDENTIFICATION

**Toxicity:**

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

**Primary Routes of Entry:**

**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.

Ingredients	Percent	NTP:	ACGIH Carcinogens	IARC:
IRON OXIDE 1309-37-1	1-10		A4 - Not Classifiable	Group 3

**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 vapors. Oxygen or artificial respiration if needed. Obtain medical attention.

**Skin Contact:**

Wipe off paste 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):**

More than 200 degrees F. Method: Tag Closed Cup

**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.

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**Hazardous Products Formed by Fire or Thermal Decomposition:**  
**Unusual Fire/Explosion Hazards:**

Oxides of nitrogen, Methyl ethyl ketone, possibly methyl ethyl ketoxime.  
Silica fume, Oxides of carbon. Formaldehyde,  
None

**Lower Explosive Limit:**  
**Upper Explosive Limit:**

Ferric oxide: 2.6  
Ferric 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 inhale vapors.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eyes:** Safety glasses.  
**Skin:** Rubber or plastic gloves  
**Ventilation:** General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product.  
**Respiratory Protection:** Not required under normal use. An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits..

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Copper-colored paste  
**Odor:** MILD  
**Boiling Point (°F):** Not applicable, polymeric material  
**pH:** 7-8  
**Solubility in Water:** Polymerized  
**Specific Gravity:** 1.05  
**VOC Content(Wt.%):** 7.8% by weight  
**Vapor Pressure:** Less than 5 mm Hg @ 80 degrees 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 Formed by Fire or Thermal Decomposition:** 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**

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

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**Marine Pollutant:** None

**IATA**

**Proper Shipping Name:** not regulated  
**Class or Division:** None  
**UN/NA Number:** None

**IMDG**

**Proper Shipping:** Unrestricted  
**Hazard Class:** None  
**UN Number:** None

**15. REGULATORY INFORMATION**

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

**SARA 313 Information**  
NONE

**CALIFORNIA PROP 65:**

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

**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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**Number:**

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