

MIG WIRE COPPER SILICON BRONZE

MIG/4K/BW08.V2

1. SUPPLIER

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2. APPLICATION

Product Name: MIG Wire Copper Silicon Bronze.
Product Specification: C9 Grade.
Product Classification: CuSi-3Mn1.
Recommended use: MIG Brazing.

3. COMPOSITION/INFORMATION OF INGREDIENTS

Chemical composition:

Chemical name	Symbol	Composition
Copper	Cu	95.49%
Silicon	Si	3.23%
Manganese	Mn	0.82%

4. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: When this product is used for its intended purpose, fumes and gases produced as a by product can be hazardous to health. Aggravation of pre-existing respiratory or allergic conditions may occur in some workers. Arc rays can injure eyes and burn skin. Electric shock can kill.

Potential Health Effects

Eye: No special hazard risk under normal use. Dusts or particulates may cause mechanical irritation including pain, tearing, and redness. Scratching of the cornea can occur if eye is rubbed. Fumes may be irritating. Contact with the heated material may cause thermal burns.

Skin: No special hazard risk under normal use. Dusts or particulates may cause mechanical irritation due to abrasion. May cause skin irritation in sensitive individuals. Contact with heated material may cause thermal burns.

Ingestion: Ingestion is an unlikely route of exposure; no hazard in normal industrial use. Swallowing of excessive amounts of the dust may cause irritation, nausea, and diarrhoea.

Inhalation: No special hazard risk under normal use. Dusts may cause irritation of the nose, throat, and lungs. Excessive inhalation of metallic fumes and dusts may result in metal fume fever, an influenza-like illness.

Chronic: Respiratory tract irritation, metal fume fever, eye irritation. Long term repeated exposures to excessive fume concentrations may lead to intoxication, including kidney disease, anemia, nervous disorders, birth defects and nasal and lung cancer.

5. FIRST AID MEASURES

Eyes: In case of overexposure to dusts or fumes, immediately flush eyes with plenty of water for at least 15 minutes occasionally lifting the eye lids. Seek medical attention if irritation persists. Thermal burns should be treated as medical emergencies.

Skin: In case of overexposure to dusts or particulates, wash with soap and plenty of water. Seek medical attention if irritation develops or persists.

Ingestion: Seek medical aid. Do not induce vomiting.

Inhalation: If inhaled, remove to fresh air. Seek medical attention if symptoms develop.

6. FIRE-FIGHTING MEASURES

General Information: As in any fire, wear self-contained pressurised breathing apparatus and full protective gear. This material is not flammable. However, welding arc and sparks can ignite combustibles. Grinding or other machining operations can produce fine particulate dust that may explode in the presence of a strong ignition source. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Never use water as an extinguishing agent around molten or smoldering metal. Water will react violently around any molten metal. Use dry chemical, CO₂ or sand.

7. ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 9.

Spills/Leaks: Sweep up and place in suitable containers for recycle or disposal. Spilled or released at long industrial condition: Remove ignition sources, Keep away from heat and flame, evacuate area. Avoid breathing dust, vapour, smoke. Wear protective equipment. Shut off source of the leak only if it is easy to do so. Keep spilled material out of sewers, ditches and bodies of water.

8. STORAGE AND HANDLING

Handling: In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Wash thoroughly after handling. Use with adequate ventilation. Minimise dust generation and accumulation. Do not eat, drink or smoke while handling the product. Keep away from sources of ignition.

Storage: Keep away from heat and flame. Store in a cool, dry place away from incompatible substances.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilising this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Individual Protection for Industrial Use:

Eyes: Wear appropriate protective eye glasses or chemical safety goggles.

Skin: For prolonged or repeated contact, use protective gloves.

Clothing: Choose body protection according to the amount and concentration of the dangerous substance in the workplace.

Respirators: Follow the European Standard EN 149. Use a European Standard EN 149 approved respirator if exposure limits are exceeded, or if irritation or other symptoms are experienced.

10. PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Wire
Colour:	Yellow
Odour:	Odourless
pH:	Not available
Vapour Pressure:	Not available
Boiling Point:	Not available
Melting Point:	1800°F
Auto-ignition Temperature:	Not available
Flash Point:	Not applicable
Explosion Limits - Lower:	Not applicable
Explosion Limits - Upper:	Not applicable
Decomposition Temperature:	Not available
Solubility in water:	Insoluble
Specific Gravity/Density:	8.5 g/cm ³

11. STABILITY & REACTIVITY

Chemical stability: Stable under normal temperatures and pressures.

Conditions to avoid: Incompatible materials, ignition sources, excessive heat.

Incompatibilities with other materials: Strong oxidising agents, mineral acids.

Hazardous decomposition products: Metallic dust or fumes may be produced during welding, burning, grinding and possibly machining.

Hazardous polymerisation: Will not occur.

13. ECOLOGICAL INFORMATION

Ecotoxicity: Not available
Other: Do not empty into drains

14. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with local, national and EU / International regulations.

15. TRANSPORT INFORMATION

	IATA	IMDG	RID/ADR
Proper shipping name:	Not regulated	Not regulated	Not regulated
Hazard class:	-	-	-
Un number:	-	-	-
Packing group:	-	-	-

16. REGULATORY INFORMATION

Reference to local, national and EU / international regulations.

Hazard Symbols: Not available

Risk Phrases: Not available

Safety Phrases:

S 16 Keep away from sources of ignition.

S 22 Do not breathe dust.

16. ADDITIONAL INFORMATION

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and which may be unfamiliar, and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.