MATERIAL SAFETY DATA SHEET

Material: Brass Rods (CW617N, CW608N, CW612N)

INGRITECH
SUPPLIES AND RAW MATERIALS FOR INDUSTRY

Section I. Identification of the Substance and of the Company

Product Name: Brass Rods (CW617N, CW608N, CW612N)
Chemical Formula: CuZn (Copper-Zinc Alloy)
Product use: Fittings, valves, sanitary equipment. Connectors, machine parts. Electrical components, pipe fittings
Country of origin: Ukraine
Distributor: **GloryWinSun OLEKSANDR TUPYTSIA**
Headquarter: Nadbystrzycka 6, 20-618 Lublin
Storage & Logistic: Stasin 67, 21-030, POLAND
Phone: **+**48 733 787 564 (Aleksander Abramov)
Email: **kontakt@ingritech.pl**
Website ingritech.pl

Section II. Hazards Identification

2.1 Classification: Not classified as hazardous according to OSHA or EU regulations.

2.2 Potential Health Effects:

- Inhalation: Dust or fumes from machining or welding may cause respiratory irritation.
- Skin Contact: Prolonged exposure to metal dust may cause skin irritation.
- Eye Contact: Metal particles may cause mechanical irritation.
- Ingestion: Not considered a primary route of exposure.

2.3 Environmental Hazards: Not considered hazardous to the environment.

Section III. Composition / Ingredients Information

Element	CW617N (%)	CW608N (%)	CW612N (%)
Copper (Cu)	57.0-59.0	59.0-62.0	58.0-61.0
Zinc (Zn)	Balance	Balance	Balance
Lead (Pb)	1.8-3.0	1.5-2.5	0.8-2.5
Iron (Fe)	≤ 0.3	≤ 0.3	≤ 0.3
Tin (Sn)	≤ 0.3	≤ 0.3	≤ 0.3
Nickel (Ni)	≤ 0.3	≤ 0.3	≤ 0.3

Section IV. FIRST AID MEASURES

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water. Seek medical attention if irritation occurs.
- **Eye Contact**: Flush eyes with plenty of water. Seek medical attention if irritation persists.
- **Ingestion:** Not applicable for solid material. If dust is swallowed, rinse mouth with water.

Section V. FIREFIGHTING MEASURES

- **Flammability:** Non-flammable.
- **Extinguishing Media:** Use appropriate extinguishing media for surrounding materials.
- **Hazardous Combustion Products:** Metal fumes may be released in fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus (SCBA).

Section VI. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Avoid inhalation of dust or fumes. Use protective equipment.
- **Environmental Precautions**: Prevent dust from entering drains or waterways.
- **Cleanup Methods:** Collect material and recycle or dispose of according to local regulations.

Section VII. HANDLING AND STORAGE

- **Handling:** Use proper ventilation when cutting, grinding, or welding. Avoid generating dust.
- **Storage:** Store in a dry place. Protect from moisture and contamination.

Section VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Occupational Exposure Limits:

- OSHA PEL (Lead): 0.05 mg/m³
- ACGIH TLV (Copper Fumes): 0.2 mg/m³
- ACGIH TLV (Zinc Oxide Fumes): 5 mg/m³

8.2 Engineering Controls: Use local exhaust ventilation if dust or fumes are generated.

8.3 Personal Protective Equipment (PPE):

- Respiratory Protection: Use a dust mask or fume extractor if needed.
- Hand Protection: Wear gloves when handling metal.
- Eye Protection: Use safety goggles when cutting or grinding.

- Skin Protection: Wear protective clothing if prolonged exposure is expected.

Section IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid rod, yellow/golden color
Odor : Odorless
Melting Point : ~880-920°C
Density : ~8.4 g/cm³
Solubility : Insoluble in water
Boiling Point : Not applicable

Section X. STABILITY AND REACTIVITY

- **Stability:** Stable under normal conditions.
- **Reactivity**: Reacts with strong acids to produce hydrogen gas.
- **Conditions to Avoid**: High temperatures may generate metal fumes.
- **Incompatible Materials:** Strong acids and oxidizers.
- **Hazardous Decomposition Products**: Metal fumes if heated excessively.

Section XI. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** No known acute effects.
- **Chronic Effects**: Long-term exposure to lead-containing alloys may cause health issues.
- **Carcinogenicity:** Lead is classified as a potential carcinogen.
- **Routes of Exposure:** Inhalation of dust or fumes, skin contact.

Section XII. ECOLOGICAL INFORMATION

- **Environmental Effects:** No significant hazard in solid form.
- **Persistence and Degradability:** Not biodegradable.
- **Bioaccumulation:** Lead may accumulate in organisms.

Section XIII. DISPOSAL CONSIDERATIONS

- **Waste Disposal:** Recycle whenever possible. Dispose of according to local regulations.
- **Hazardous Waste Code:** May be classified as hazardous if lead content exceeds regulatory limits.

Section XIV. TRANSPORT INFORMATION

- **UN Number:** Not regulated
- **Hazard Class:** Not classified
- **Packaging Requirements:** No special requirements

Section XV. REGULATORY INFORMATION

- **EU REACH Compliance:** Compliant
- **OSHA Hazard Communication:** Not classified as hazardous in solid form
- **RoHS Compliance**: May contain lead; check for specific regulations

Section XVI. OTHER INFORMATION

Disclaimer: The information in this MSDS is believed to be accurate, but no guarantees are made regarding its completeness or correctness. Users must determine the suitability of this material for their specific applications.

INGRITECH
SUPPLIES AND RAW MATERIALS FOR INDUSTRY

Phone: +48 733 787 564 (Aleksander Abramov)
Email: kontakt@ingritech.pl
Website ingritech.pl