

SAFETY DATA SHEET

SECTION 1: IDENTIFY OF THE SUBSTANCE / MANUFACTURING INFORMATION

Product Name : Copper Ball & Slug

Manufacturer : LUVATA MALAYSIA SDN BHD

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SECTION 2: COMPOSITION / INFORMATION OF INGREDIENTS

Copper trade name / CAS No	UNS No.	Copper %
Cu-OF / 7440-50-8	C10200	99.95% Min
Cu-DHP / 7440-50-8	C12220	99.90% Min

SECTION 3: HAZARDS IDENTIFICATION



Signal Word: Health Hazard

Physical / Chemical Hazards : Not classified as dangerous

Environmental Hazards : Not classified as dangerous, can be 100% recyclable.

Human Hazards : Copper products in the natural state do not present an inhalation ingestion or contact hazard.
However, operations such as melting, welding, sawing, brazing and grinding may result in the following effects in the case of overexposure.

Route of Entry: Skin : No
 Route of Entry: Ingestion : No
 Route of Entry: Inhalation : Yes
 Health Hazards - Acute and Chronic : INHALE: IF HEATED (>1100 ° C) MAY CAUSE
 : "METAL FUME FEVER"(FLU-LIKE SYMPTOMS)

Carcinogenic: NTP : No
 Carcinogenic: IARC : No
 Carcinogenic: OSHA : No
 Explanation of Carcinogenic : None

SECTION 4: FIRST AID MEASURES

Inhalation : In case of excessive exposure, remove to fresh air, administer oxygen and seek physician assistance.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media : Carbon Dioxide, Dry Chemical

Special Fire Fighting Procedures : Self-contained breathing apparatus with a full face-piece operated in the positive pressure démodé mode with appropriate turn-out gear and chemical resistant

SECTION 6: ACCIDENT RELEASE MEASURES

Copper Slug/Nugget in the natural state do not cause any accidents.

SECTION 7: HANDLING AND STORAGE

Precautions to be taken in handling and storage

Good housekeeping must be practiced during storage, transfer, handling and use to avoid excessive dust accumulation.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Copper Slug/Nugget in the natural state do not present an inhalation ingestion or contact hazard.

However, operations such as melting, welding, sawing, brazing and grinding may result in the following effects in the case of overexposure



Dust Mask



Eye protection



Gloves

Personal Protective Equipment : Respiratory Protection
 Eye Protection
 Ventilation
 Protective Gloves
 Depending on use, in special cases consult Other Protective Equipment industrial safety experts for appropriate selection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Properties	US Customary	Metric
Melting Point - Liquidus	1981 F	1083 C
Melting Point - Solidus	1981 F	1083 C
Density	0.323 lb/in ³ at 68 F	8.94 gm/cm ³ @ 20 C
Specific Gravity	8.94	8.94
Electrical Resistivity	10.3 ohms-cmil/ft @ 68 F	1.71 microhm-cm @ 20 C
Electrical Conductivity	101 %IACS @ 68 F	0.591 MegaSiemens/cm @ 20 C
Thermal Conductivity	226.0 Btu · ft/(hr · ft ² ·°F) at 68F	391.1 W/m · °K at 20 C
Coefficient of Thermal Expansion	9.4 · 10 ⁻⁶ per °F (68-212 F)	16.9 · 10 ⁻⁶ per °C (20-100 C)
Coefficient of Thermal Expansion	9.6 · 10 ⁻⁶ per °F (68-392 F)	17.3 · 10 ⁻⁶ per °C (20-200 C)
Coefficient of Thermal Expansion	9.8 · 10 ⁻⁶ per °F (68-572 F)	17.6 · 10 ⁻⁶ per °C (20-300 C)
Specific Heat Capacity	0.092 Btu/lb/°F at 68 F	393.5 J/kg · °K at 293 K
Modulus of Elasticity in Tension	17000 ksi	117000 MPa
Modulus of Rigidity	6400 ksi	44130 MPa

SECTION 10: STABILITY AND REACTIVITY

Stability : Yes
 Stability Conditions to Avoid : None
 Materials to Avoid : ACETYLENES, SULFUR COMPOUNDS
 Hazardous Polymerization : No
 Polymerization Conditions to Avoid : Will Not Occur

SECTION 11: TOXICOLOGICAL INFORMATION

Not classified as hazards

SECTION 12: ECOLOGICAL INFORMATION

Environmental Hazards : Not classified as dangerous, can be 100% recyclable.

SECTION 13: DISPOSAL CONSIDERAION

Environmental Hazards : Not classified as dangerous, can be 100% recyclable.

SECTION 14: TRANSPORT INFORMATION

No information.

SECTION 15: REGULATORY INFORMATION

No information.

SECTION 16: OTHER INFORMATION

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of the knowledge and belief of LUVATA MALAYSIA SDN BHD, but is not guaranteed to be so. The company makes no representations or warranties, express or implied. Customers are encouraged to conduct their own tests.

For further information contact: LUVATA MALAYSIA SDN BHD

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