## Celestra



# **MATERIAL SAFETY DATA SHEET**

Celestra, 76, Huancun Road, Zhongcun Street, Panyu Dist, Guangzhou

Celestra CATALOG NUMBER: LUG

(SEE ADDENDUM)

REVISION: 00 DATA PREPARED: 23 Aug 2025

PRODUCT DESCRIPTION: COPPER LUG

DOCUMENT NUMBER: **MSDS-0062** (FORMERLY MSDS0062)

#### SECTION 1 PRODUCT INDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: LUG GENERAL USE: CONDUCTOR TERMINATION PRODUCT DESCRIPTION: COPPER LUG GENERIC INGREDIENTS: COPPER W/TIN

## 24HR EMERGENCY TELEPHONE NUMBERS: CHEMTREC: (703) 527-3887 / 800-424-9300

FOR PRODUCT INFORMATION: Celestra: +86.20.3471.7744

#### SECTION 2 HAZARDOUS INGREDIENT SECTION

#### **OSHA HAZARDOUS INGREDIENTS**

| HAZARDOUS<br>COMPONENTS                   | CAS NO.        | % BY   | wт    | OSHA PEL            | ACGI | H TLV            | OTHER LIMITS (<br>EXPOSURE | OF |
|---|----------------|--------|-------|---------------------|------|------------------|----------------------------|----|
| COPPER                                    | 7440-50-8      | 96.44~ | 98.61 | 1 mg/M <sup>3</sup> | 1 m  | g/M <sup>3</sup> | STEL: 2 mg/M <sup>3</sup>  |    |
| SECTION 3 HEALTH INFORMATION & PROTECTION |                |        |       |                     |      |                  |                            |    |
| CARCINOGENICITY:                          | NTP?           | NO     |       | IONOGRAPHS?         | NO   | OSHA             | REGULATED?                 | NO |
| ROUTE(S) OF ENTRY:                        | INHALATION?    | NO     | SKIN? |                     | NO   | INGES            | TION?                      | NO |
| HEALTH HAZARDS(ACUTE AND CHRONIC):        |                |        |       |                     |      |                  |                            |    |
| POTENTIAL HEALTH EFFECTS:                 |                |        |       |                     |      |                  |                            |    |
| EYE CONTACT:                              | NOT REGUI      | ATED   |       |                     |      |                  |                            |    |
| SKIN CONTACT:                             | NOT REGULATED. |        |       |                     |      |                  |                            |    |
| INGESTION:                                | NOT REGULATED. |        |       |                     |      |                  |                            |    |
| INHALATION:                               | NOT REGUI      | ATED   | •     |                     |      |                  |                            |    |
| FIRST AID MEASURES:                       |                |        |       |                     |      |                  |                            |    |
| EYE CONTACT:                              | NOT REGUI      | ATED   |       |                     |      |                  |                            |    |
| SKIN CONTACT:                             | NOT REGUI      | ATED   |       |                     |      |                  |                            |    |
| INGESTION:                                | NOT REGU       | ATED   |       |                     |      |                  |                            |    |

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**INHALATION:** NOT REGULATED.

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

(SEE ADDENDUM)

#### WORKPLACE EXPOSURE CONTROLS:

#### PERSONAL PROTECTION:

| RESPIRATORY PROTECTION: | NONE NEEDED.                                   |  |  |
|-------------------------|--|--|--|
| VENTILATION:            |  |  |  |
| HAND PROTECTION:        | PROTECTIVE GLOVES FOR HYPERSENSITIVE PERSONS.  |  |  |
| EYE PROTECTIVE:         | GLASSES, IF APPLIED TO MOVING PARTS IN MOTION. |  |  |
| BODY PROTECTION:        | OVERALLS.                                      |  |  |
| WORK/HYGIENIC:          |  |  |  |

#### **SECTION 4 FIRE & EXPLOSION HAZARDS**

| FLASH POINT:          | NOT REGULATED.  |
|-----------------------|---|
| EXPLOSIVE PROPERTIES: | NOT REGULATED.  |
| FLAMMABLE LIMITS:     | NOT FLAMMABLE AT AMBIENT TEMPERATURE                              |
| GENERAL HAZARD:       |   |
| FIRE FIGHTING:        | FOAM, DRY POWDER, CARBON, DIOXIDE, SAND, EARTH AND WATER<br>MIST. |

#### **SECTION 5 SPILL CONTROL MEASURES**

| SPILL RESPONSE:     | NOT REGULATED.  |
|---------------------|---|
| PRODUCT DISPOSAL:   | DO NOT INCINERATE. CONTACT WASTE DISPOSAL AUTHORITY FOR ADVICE.   |
| CONTAINER DISPOSAL: | PAILS WITHOUT LINER SEE "PRODUCT DISPOSAL". PAILS WITH<br>PLASTIC LINER PAIL CAN ONLY BE DISPOSED OF VIA STANDARD<br>WASTE DISPOSAL SERVICES, RECYCLED OR REUSED. LINER - SEE |
|                     | "PRODUCT DISPOSAL".   |

#### **SECTION 6 HANDLING & STORAGE**



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# GENERAL:NO SPECIAL HANDLING PRECAUTIONS NECESSARY.STORAGE:DO NOT STORE ATELEVATED TEMPERATURES.

(SEE ADDENDUM)

#### SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

**APPEARANCE:** GRAINY SEMISOLID PASTE

COLOR: COPPER DENSITY(g/cm<sup>3</sup>): 1.66

ODOR: SHARP pH: NEUTRAL PARTITION COEFFICENT (LOG POW): N/A SOLUBILITY IN WATER: Nil VAPOR PRESSURE, (kPa): <0.01 AUTOIGNITION

TEMPERATURE °F(°C): >680(360) BOILING POINT °F(°C): >700(371) EVAPORATION RATE, BUTYL ACETATE=1: <0.01 MELTING POINT: N/A PERCENT VOLATILE: NIL

SPECIFIC GRAVITY (H2O=1): VAPOR DENSITY (AIR=1): >5

#### **SECTION 8 REACTIVITY DATA**

| GENERAL:                   |     |
|----------------------------|-----|
| CHEMICAL STABILITY:        | CHE |
|                            | PHO |
| INCOMPATIBLE MATERIALS AND | POW |
| CONDITONS TO AVOID:        | ORG |
|                            | DUD |

HAZARDOUS DECOMPOSITION PRODUCTS: CHEMICAL STABLE UNDER NORMAL CONDITIONS. NO PHOTOREACTIVE AGENTS. POWERFUL SOURCES OF IGNITION. STRONG INORGANIC AND ORGANIC ACIDS AND OXIDIZING AGENTS. BURNING GENERATES SMOKE, AIRBORNE SOOT, HYDROCARBONS AND OXIDES OF CARBON. RESIDUE MAINLY COMPRISED OF SOOT AND METAL OXIDES AND MINERAL CARBIDES.

HAZARDOUS POLYMERIZATION:

#### **SECTION 9 REGULATORY INFORMATION**

DEPARTMENT OF TRANSPORTATION(DOT): NON-HAZARDOUS

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## INTERNATIONAL:

WHMIS(CANADA): NOT REGULATED

## **SECTION 10 NOTES**

TOXICOLOGICAL INFO: LC-50: 1.98G/LT (MYSIDOPSIS BAHA), BASED ON ASSESSMENT FROM RELATED PRODUCTS.

## HAZARD RATING SYSTEMS:

HIMS

NFPA

KEY





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| MATERIAL SAFETY DATA SHEET   |   |                             |  |  |  |
|--|---|-----------------------------|--|--|--|
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| PRODUCT DESCRIPTION: COPPER LUG                                    |   |                             | DOCUMENT NUMBER: <b>MSDS-0062</b><br>(FORMERLY MSDS0062) |  |  |
| HEALTH   | 1 | 1                           | 4=SEVERE   |  |  |
| FLAMMABILITY   | 1 | 1                           | 3=SERIOUS  |  |  |
| FLAMMABILITY   | 1 | 1                           | 2=MODERATE   |  |  |
|  |   |                             | 1=SLIGHT   |  |  |
|  |   |                             | 0=MININAL  |  |  |
| REVISION SUMMARY:  |   | SI                          | JPERSEDES ISSUE DATE                                     |  |  |

**ABBREVIATION:** 

N/E=NOT ESTABLISHED N/A=NOT AVAILABLE

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#### ADDENDUM

**Catalog Number** 

Description

LB021458P-261

Copper Two-Hole Lug-90°, Standard Barrel