



## 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 IDENTIFICATION & 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 COMPONENTS | CAS NO.   | % BY WT     | OSHA PEL            | ACGIH TLV           | OTHER LIMITS OF EXPOSURE  |
|----------------------|-----------|-------------|---------------------|---------------------|---------------------------|
| COPPER               | 7440-50-8 | 96.44~98.61 | 1 mg/M <sup>3</sup> | 1 mg/M <sup>3</sup> | STEL: 2 mg/M <sup>3</sup> |

### SECTION 3 HEALTH INFORMATION & PROTECTION

|                           |                    |    |                         |    |                        |    |
|---------------------------|--------------------|----|-------------------------|----|------------------------|----|
| <b>CARCINOGENICITY:</b>   | <b>NTP?</b>        | NO | <b>IARC MONOGRAPHS?</b> | NO | <b>OSHA REGULATED?</b> | NO |
| <b>ROUTE(S) OF ENTRY:</b> | <b>INHALATION?</b> | NO | <b>SKIN?</b>            | NO | <b>INGESTION?</b>      | NO |

**HEALTH HAZARDS(ACUTE AND CHRONIC):**

**POTENTIAL HEALTH EFFECTS:**

**EYE CONTACT:** NOT REGULATED.

**SKIN CONTACT:** NOT REGULATED.

**INGESTION:** NOT REGULATED.

**INHALATION:** NOT REGULATED.

**FIRST AID MEASURES:**

**EYE CONTACT:** NOT REGULATED.

**SKIN CONTACT:** NOT REGULATED.

**INGESTION:** NOT REGULATED.



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**INHALATION:** NOT REGULATED.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

**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 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 PLASTIC LINER PAIL CAN ONLY BE DISPOSED OF VIA STANDARD 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.

### 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:** CHEMICAL STABLE UNDER NORMAL CONDITIONS. NO PHOTOREACTIVE AGENTS.

**INCOMPATIBLE MATERIALS AND CONDITONS TO AVOID:** POWERFUL SOURCES OF IGNITION. STRONG INORGANIC AND ORGANIC ACIDS AND OXIDIZING AGENTS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** 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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### HAZARD CLASS:

|             |            |             |                   |
|-------------|------------|-------------|-------------------|
| <b>UN#:</b> | <b>PG:</b> | <b>ERG:</b> | <b>HAZ LABEL:</b> |
|-------------|------------|-------------|-------------------|

**I.A.T.A. CLASSIFICATION:** NOT REGULATED

### HAZARD CLASS:

|             |            |             |                   |
|-------------|------------|-------------|-------------------|
| <b>UN#:</b> | <b>PG:</b> | <b>ERG:</b> | <b>HAZ LABEL:</b> |
|-------------|------------|-------------|-------------------|

### U.S. FEDERAL REGULATIONS

**TSCA:** ALL COMPONENTS ARE LISTED.

**CERCLA:** NON-HAZARDOUS

**RCRA HAZARD CLASS:** NON-HAZARDOUS

### SARA TITLE III INFORMATION

**SECTION 302:** NONE

**SECTION 311/312:** NONE

**SECTION 313:** THIS PRODUCT CONTAINS COPPER

**NEW JERSEY RIGHT-TO-KNOW INFORMATION:** N/A

**CALIFORNIA PROPOSITION 65 INFORMATION:** NONE.

### INTERNATIONAL:

**WHMIS(CANADA):** NOT REGULATED

## SECTION 10 NOTES

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

### HAZARD RATING SYSTEMS:

HIMS

NFPA

KEY



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|              |   |   |            |
|--------------|---|---|------------|
| HEALTH       | 1 | 1 | 4=SEVERE   |
| FLAMMABILITY | 1 | 1 | 3=SERIOUS  |
| FLAMMABILITY | 1 | 1 | 2=MODERATE |
|              |   |   | 1=SLIGHT   |
|              |   |   | 0=MININAL  |

REVISION SUMMARY: SUPERSEDES ISSUE DATE

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

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ADDENDUM

| Catalog Number | Description                              |
|----------------|--|
| DA0238F-261    | Copper Two-Hole Lug-90°, Standard Barrel |