



**MATERIAL SAFETY DATA SHEET**

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

Celestra CATALOG NUMBER: LUG  
(SEE ADDENDUM)

REVISION: 00  
DATA PREPARED: 18 Apr 2026

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**

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO  
ROUTE(S) OF ENTRY: INHALATION? NO SKIN? NO INGESTION? 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:

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### SECTION 4 FIRE & EXPLOSION HAZARDS

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**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.

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### SECTION 5 SPILL CONTROL MEASURES

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**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".

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### SECTION 6 HANDLING & STORAGE

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**GENERAL:** NO SPECIAL HANDLING PRECAUTIONS NECESSARY.

**STORAGE:** DO NOT STORE AT ELEVATED 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 COEFFICIENT (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 (H<sub>2</sub>O=1):**

**VAPOR DENSITY (AIR=1):** >5

### SECTION 8 REACTIVITY DATA

**GENERAL:**

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

**INCOMPATIBLE MATERIALS AND CONDITIONS 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:**

**UN#: PG: ERG: HAZ LABEL:**

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

**HAZARD CLASS:**

**UN#: PG: ERG: HAZ LABEL:**

**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 BAHA), 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                              |
|----------------|--|
| DA043F-261     | Copper Two-Hole Lug-90°, Standard Barrel |