



**MATERIAL SAFETY DATA SHEET**

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

Celestra CATALOG NUMBER: LUG  
(SEE ADDENDUM)

REVISION: 00  
DATA PREPARED: 19 May 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

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**SECTION 10 NOTES**

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**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
AS3176-52	Copper Two-Hole Lug-90°, Standard Barrel