

MATERIAL SAFETY DATA SHEET

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

Celestra CATALOG NUMBER: LUG REVISION: 00

(SEE ADDENDUM)

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 OTHER LIMITS OF CAS NO. % BY WT OSHA PEL ACGIH TLV

COMPONENTS EXPOSURE

COPPER 7440-50-8 96.44~98.61 1 mg/M³ 1 mg/M³ STEL: 2 mg/M³

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.



MATERIAL SAFETY DATA SHEET

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

Celestra CATALOG NUMBER: LUG REVISION: 00

(SEE ADDENDUM) DATA PREPARED: 23 Aug 2025

PRODUCT DESCRIPTION: COPPER LUG DOCUMENT NUMBER: MSDS-0062

(FORMERLY MSDS0062)

INHALATION: NOT REGULATED.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

WORKPLACE EXPOSURE CONTROLS:

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: NONE NEEDED.

VENTILATION:

<u>HAND PROTECTION</u>: 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



MATERIAL SAFETY DATA SHEET

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

Celestra CATALOG NUMBER: LUG REVISION: 00

(SEE ADDENDUM) DATA PREPARED: 23 Aug 2025

PRODUCT DESCRIPTION: COPPER LUG DOCUMENT NUMBER: MSDS-0062

(FORMERLY MSDS0062)

GENERAL: NO SPECIAL HANDLING PRECAUTIONS NECESSARY.

STORAGE: DO NOT STORE ATELEVATED TEMPERATURES.

SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: GRAINY SEMISOLID PASTE AUTOIGNITION

TEMPERATURE °F(°C): >680(360)

COLOR: COPPER BOILING POINT °F(°C): >700(371)

DENSITY(g/cm³): 1.66 EVAPORATION RATE,

BUTYL ACETATE=1: <0.01

ODOR: SHARP MELTING POINT: N/A

pH: NEUTRAL PERCENT VOLATILE: NIL

PARTITION COEFFICENT (LOG POW): N/A

SOLUBILITY IN WATER: Nil SPECIFIC GRAVITY (H2O=1): VAPOR PRESSURE, (kPa): <0.01 VAPOR DENSITY (AIR=1): >5

SECTION 8 REACTIVITY DATA

GENERAL:

CHEMICAL STABILITY: CHEMICAL STABLE UNDER NORMAL CONDITIONS. NO

PHOTOREACTIVE AGENTS.

INCOMPATIBLE MATERIALS AND

POWERFUL SOURCES OF IGNITION. STRONG INORGANIC AND

CONDITIONS TO AVOID:

ORGANIC ACIDS AND OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION

BURNING GENERATES SMOKE, AIRBORNE SOOT,

PRODUCTS:

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



MATERIAL SAFETY DATA SHEET

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

Celestra CATALOG NUMBER: LUG REVISION: 00

(SEE ADDENDUM) DATA PREPARED: 23 Aug 2025

PRODUCT DESCRIPTION: COPPER LUG DOCUMENT NUMBER: MSDS-0062

(FORMERLY MSDS0062)

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



MATERIAL SAFETY DATA SHEET

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

Celestra CATALOG NUMBER: LUG REVISION: 00

(SEE ADDENDUM) DATA PREPARED: 23 Aug 2025

PRODUCT DESCRIPTION: COPPER LUG DOCUMENT NUMBER: MSDS-0062

(FORMERLY MSDS0062)

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

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND ACCURATE TO THE BEST OF CELESTRA KNOWLEDGE. THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USERS'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.

ADDENDUM

Catalog Number Description

DA0610-260 Copper Two-Hole Lug-90°, Standard Barrel