

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.



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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



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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 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



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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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HEALTH114=SEVEREFLAMMABILITY113=SERIOUSFLAMMABILITY112=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

AL4038 Copper Two-Hole Lug-90°, Standard Barrel