

MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL

Product name: Bootlace pins-ferrules, Twin wire bootlace pins
Part numbers: BLP ranges, BLPT ranges
Other names: Insulated copper terminal and tube
Recommended use: Electro-Mechanical Termination of Conductors

Section 2: HAZARD IDENTIFICATION

Hazard classification: N/A
Risk phrases: No data
Safety phrase: No data

Poisonous: Stable and safe with normal crimping and handling
Insulator: Possible generation of CO, CO₂, HCL and other irritative/hazardous gas from combustible/thermal decomposition.
Danger: Not dangerous with normal handling.
Insulator: Possible fire ignition from contact with flame or spark.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of Components:

Chemical Identity	Proportion %	CAS number
Conductor-Cu (Copper)	≥99.9	
Phosphorus	---	
Polyamide 66	100-99	
Secondary additives	0-1	

Section 4: FIRST AID MEASURES

If Ingested: No data
If in eyes: No data
If on skin: If heated, terminal contacts can cause slight burn, cool the affected area by applying plenty of water.
If inhaled: No data

(Indication of medical attention and any special treatment needed (notes to physician should include description of most important symptoms, acute and delayed)

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing media:

Water, carbon dioxide, dry chemical powder, etc or dry sand at the early stages of the fire.
Eliminate air supply with fire fighting foam on large scale of fire.

Hazards from Combustion Products:

No data

Precautions for fire fighters:

It is advisable for fire fighters and workers to wear protective air respirator because fires generate Hydrogen Chloride gas

Special protective equipment:

Air Respirator

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

N/A

Methods and Materials for containment and clean up:

N/A

Section 7: HANDLING AND STORAGE

Precautions for safe handling:

Colour of conductor may change later, when touched with naked hand.

Conditions for safe storage, including any incompatibilities:

Keep away from water. keep away from chemicals such as acid, alkali, strong oxidising agent, chloride and such components. Avoid ignition sources like flames, static electricity and spark. Avoid storage under high temperature and high humid conditions.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure standards: No data

Biological limit values: No data

Engineering controls: No data

Personal Protective Equipment:

Use of eyewear, gloves and such is advisable.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Conductor-Matt white Sleeve-Matt white Insulator-Red, Blue, Yellow, Green
Odour:	No data
pH:	No data
Vapour Pressure:	No data
Vapour Density:	No data
Boiling point/range:	Conductor-2582°C

Freezing/melting point:	Sleeve-2582°C Insulator-Not Applicable Conductor-1083°C Sleeve-1083°C Insulator-N/A
Solubility:	Insoluble in water
Specific gravity (H2O=1) or density:	N/A
Flashpoint:	N/A
Upper flammable (explosive) limits in air:	N/A
Lower flammable (explosive) limits in air:	N/A
Ignition temperature:	400°C

Section 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable below 200°C
Conditions to avoid:	N/A
Incompatible Materials:	N/A
Hazardous decomposition products:	Hydrogen Chloride gas
Hazardous reactions:	Generates Hydrogen Chloride gas with the occurrence of thermal decomposition
Oxidizability:	Weak affinity of oxygen

Section 11: TOXICOLOGICAL INFORMATION

Acute and Chronic health affects:

Rare outbreak of contact dermatitis. Symptoms of chronic toxicity is liver and kidney disorder.

Acute toxicity:

Copper Powder LD50: oral mouse >4000mg/kg (includes 50% fatal dose)

Possible routes of exposure:

Skin contact, Ingestion, Inhalation

Range of affects following exposure:

Symptoms of acute poisoning:

Nausea, vomiting and Lassitude caused when swallowing.

Cough, headache and heat seizure caused when inhaling powder dust and fume.

Dose, concentration or conditions of exposure likely to cause injury:

No Data

Delayed affects:

No data

Relevant negative data:

No data

Carcinogenicity:

N/A

Mutagenicity:

N/A

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:

No data

Persistence and degradability:

No Data

Mobility:

No data

Ichthyotoxicity:

TLm(Cu ppm) Copper form Cu₂SO₄ 48 Hr

Rainbow trout 0.038-0.8ppm

Section 13: DISPOSAL CONSIDERATION

Disposal methods and containers:

If possible, separate disposal of conductor and insulator is advisable.

Special precautions for landfill or incineration:

Conductor: recyclable, ask local recycle agent for collection.

Insulator: Ask authorise waste company.

use incinerator (850°C) with exhaust gas treatment when incinerating.

Dispose of in accordance with all applicable local, state and federal regulations.

Section 14: TRANSPORT INFORMATION

Domestic Highway**UN number:**

No data

UN Proper shipping name:

No data

Class and subsidiary risk:

No data

Packing group:

no data

Special precaution for user:

Cover as necessary to protect from water. Handle with caution to avoid damage to drop, collapsing and load tumbling.

Hazchem code:

No data

Section 15: REGULATORY INFORMATION

The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation:

Law regarding waste disposal and cleaning : Plastic

Object substance of PRTR : Silver, Bis phthalate (2-ethylhexyl)

Section 16: OTHER INFORMATION

Date of Preparation/last Revision of the MSDS

May 2015

New Zealand Emergency Telephone: 111

New Zealand National Poisons Centre Telephone: 0800 POISON (0800 764 766)

The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and to develop work practice procedures for a safe work environment.

DISCLAIMER: The information contained herein, is to the best of our knowledge and belief; accurate. However, because the condition of handling and use are beyond our control, **we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all federal, state and local laws and regulations.**