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# NEW ENGLAND ELECTRIC WIRE CORPORATION

LISBON, NEW HAMPSHIRE 03585 TEL 603-838-66

## MATERIAL SAFETY DATA SHEET

#### MSDS # 4

MANUFACTURER'S NAME: New England Electric Wire Corporation

ADDRESS: 365 Main Street, Lisbon, N.H. 03585

TELEPHONE: 1-603-838-6625

PREPARATION DATE: October 16, 1991

REVISION DATE: July 27, 1993

CHIMICAL NAME AND SYNONYMS: Newaloy 61 (CADM

(CADMIUM COPPER)

**PRODUCT TYPE:** Round and flattened wire products fabricated by mechanical means such as bending, coiling, stranding, braiding, or weaving, etc.

In the solid form this product is not hazardous. However, caution must be exercised when burning, grinding, or welding.

# HAZARDOUS INGREDIENTS

INGREDIENT	<u>\$</u>	CAS#	osha pel	ACGIH TLV	ACGIH-STEL
Copper* Fume Dust	98,8~100	7440-50-8	0.1 mg/M <sup>3</sup> 1.0 mg/M <sup>3</sup>	0.2 mg/M <sup>3</sup> 1.0 mg/M <sup>3</sup>	2.0 mg/M <sup>3</sup>
Cadmium <sup>*</sup> Fume Dust Oxide	0.7~1.2	7440-43-9		0.1 mg/M <sup>3</sup> 0.2 mg/M <sup>3</sup>	.05 mg/M <sup>3</sup>

<sup>\*</sup> SARA Title III, Section 313 listed chemical.

### PHYSICAL DATA

Density:
Boiling Point:
Melting Point:
Vapor Pressure:
Vapor Density:
Evaporation Rate:
Solubility in Water:
Odor:
Appearance:

8.76-8.92
2324° C.
1083° C. (solidus)
1mm Hg @ 887 C. as copper.
N/A
N/A
Insoluble
None
Red brown metal

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#### PIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A Auto Ignition Temperature: N/A Flammability Limits in Air & by volume - LEL: N/A

Extinguishing Media: Powdered dolomite, sodium chloride, or graphite.

Special Fire Fighting Procedures: Copper or tin in the form of dust or powder is a slight to moderate fire hazard when exposed to heat, or by spontaneous chemical reaction with halogenates, Cu(NO3), H2O2, and explosive with the addition of heat, percussion, or friction to the chemical reaction. For copper and cadmium powder fires do not use water.

Unusual Fire and Explosion Hazards: Reacts violently with C2H2, NH4NO3, bromates, chlorates, iodates,  $Cl_2$ ,  $Br_2$ ,  $ClF_2$ ,  $ClF_3$ ,  $BrF_3$  ( $Cl_2$  +  $OF_2$ ), ethylene oxide,  $F_2$ ,  $H_2O_2$ , hyrazine mononitrate, hydrazoic acid,  $H_2S$ ,  $Pb(N_3)_2$ ,  $K_2O_2$ ,  $NaN_3$ ,  $Na_2O_2$ ,  $Cu(NO_3)$  and S.

# REACTIVITY HAZARD DATA

Stability: Stable Conditions to Avoid: High temperatures may release toxic metal fumes. Materials to Avoid: 1-Bromo-2-propyne, NH3, Zn, Se, Te, and oxidizing agents (also materials listed under Fire and Explosion Hazard Data).

HEALTH HAZARD DATA

Hazardous Decomposition Products: Toxic metal fumes. Hazardous Polymerization: Will not occur.

Primary Routes of Entry: Inhalation

Carcinogen: Cadmium is a suspected cardinogen by NTP and IARC

Monagraph.

Acute - Metal Fume Fever Health Hazards:

Chronic - Cadmium may cause kidney dysfunction,

emphysema, and bronchitis.

Symptoms of Exposure: Chills, fever, aching muscles, dry mouth and throat, headache, nausea, vomiting, and diarrhea. Medical Conditions aggravated by exposure: Wilson's disease or pre-

existing respiratory or kidney disease.

Emergency First Aid Procedures

Fragments in corner may cause cataracts. Eye Contact:

fragments and flush eyes with fresh water for 15

minutes.

May irritate skin. Wash skin with fresh water for 5 Skin Contact:

minutes. Remove contaminated clothing and wash

before reuse.

Remove to fresh air. Administer CPR if breathing Inhalation:

has stopped.

May be moderately irritating to stomach lining. Ingestion:

Induce vomiting if conscious.

Seek medical attention for further treatment and assistance.

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FAX NO. 603 838 2805

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# CONTROL AND PROTECTIVE MEASURES

Respiratory Protection:

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NIOSH/MSHA approved respirator when toxic

dust and/or fumes are present.

Protective Gloves:

None required.

Eye Protection: Ventilation: Safety glasses if particles become airborne. Local exhaust if toxic fumes are present.

Hygienic Work Practices: Practice good housekeeping and personal

hygiene procedures.

### SAFE MANDLING AND LEAR PROCEDURES

Allow molten metal to cool and solidify before handling. Use methods that minimize the generation of toxic copper and cadmium dust when cleaning up.

Recycle or dispose of scrap in accordance with federal, state and local regulations.

Avoid storage near incompatible materials listed under Fire and Explosion Data and Reactivity Data. Avoid conditions which create toxic metal fumes or dust.

Wash exposed skin after handling material.

NFPA RATING Health 1 Flammability 0 Reactivity 0 Special HMIS RATING Health 1 Flammability 0 Reactivity 0 Personal Protection A

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