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NEW ENGLAND ELECTRIC WIRE CORPORATION

LISBON, NEW HAMPSHIRE 03585 TEL 603 838 682

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

FREPARATION DATE: October 16, 1991

REVISION DATE: July 27, 1993

CHEMICAL NAME AND SYNONYMS: Newsloy 61

(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.

MAZARDOUS INGREDIENTS

INGREDIENT	<u>3</u>	CAS#	OSHA PEL	ACCIH TLV	ACGIH-STEL
Copper * Fume Dust	98.8-100	7440-50-8	0.1 mg/M^3 1.0 mg/M^3	0.2 mg/M ³	2.0 mg/M ³
Cadmium* Fume Dust Oxide	0.7-1.2	7440-43-9		0.1 mg/M ³ 0.2 mg/M ³	.05 mg/M ³

SARA Title III, Section 313 listed chemical.

PRYSICAL 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)
lmm Hg @ 887 C. as copper.
N/A
N/A
Insoluble
None
Red brown metal

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FIRE AND EXPLOSION HAZARD DATA

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

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

HEALTH HARARD DATA

Primary Routes of Entry: Inhalation

Carcinogen: Cadmium is a suspected carcinogen by MTP and IARC

Monagraph.

Health Hazards: Acute - Metal Fume Fever

Chronic - Cadmium may cause kidney dysfunction,

emphysems, 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

Bye Contact: Fragments in cornes may cause cataracts. Remove

fragments and flush eyes with fresh water for 15

minutes.

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

minutes. Remove contaminated clothing and wash

before reuse.

Remove to fresh air. Administer CPR if breathing Inhalation:

has stopped.

Ingestion: May be moderately irritating to stomach lining.

Induce vomiting if conscious.

Seek medical attention for further treatment and assistance.

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CONTROL AND PROTECTIVE MEASURES

Respiratory Protection:

NIOSH/MSHA approved respirator when toxic

dust and/or fumes are present.

Protective Gloves:

None required.

Eye Protection: Ventilation:

Hygienic Work Practices:

Safety glasses if particles become airborne. Local exhaust if toxic fumes are present.

Practice good housekeeping and personal

hygiene procedures.

SAFE HANDLING AND LEAK 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 Personal Protection A

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MATERIAL SAFETY DATA SHEET

MSDS # 8

MANUFACTURER'S NAME: New England Electric Wire Corporation

ADDRESS: 365 Main Street TELEPHONE: (603) 838-6625

PREPARATION DATE: August 5, 1993

-> CHENICAL NAME AND SYNCHYMS: Poly(vinyl chloride), PVC, vinyl, copolymer.

PRODUCT TYPE: Wire and cable products insulated with natural or colored PVC compounds.

CAS REGISTRY NUMBER: N/A

HAZARDOUS INGREDIENTS

INGREDIENT	3	CAS#	OSHA PEL	OSHA STEL
Lead Stabilizer	0 - 5%	K/A	0.05 mg/m ³	0.15 mg/m ³
Organie Tin Compounds	0 - 106	N/A	0.5 mg/m ³	C.1 mg/m ³
Vinyl Chloride	< 0.001%	75-01-4	1 ppm	5 ppm
Honomeric Phthal Adipate Plastici DEHP		117-81-7	5 mg/m ³	10 mg/m ³
DEHA	5 - 154	103-23-1	N/A	N/A
*Antimony Compounds	2% max	N/A	H/A	n/A
[‡] Barium Compounds	2% max	N/A	n/A	N/A
*Cadmium Compounds	2% max	N/A	n/A	W/A
*Chromium Compounds	79 max	n/a	n/l	H/A
Lesd	5% max	N/A	N/A	n/a

[&]quot;subject to SARA Title III Section 313 reporting.

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PHYSICAL DATA

Volatile Content: Non-volatile Specific Gravity: 1.30 - 1.85

Vapor Pressure: N/A

Evaporation Rate: N/A Odor: Odorless or bland

Boiling Point: N/A Melting Point: N/A Vapor Density: N/A

Solubility in Water: Slight

FIRE AND EXPLOSION HAZARD DATA

Flash Ignition Temperature: 3910 C Method: ASTM D-1929 Self-Ignition Temperature 4540 C Method: ASTM D-1929 Flanmability Limits in Air & by Volume-LEL: N/A UEL: N/A

Unusual Fire and Explosion Hazards: FVC evolves hydrogen chloride, carbon monoxide and other toxic gases when burned. Exposure to combustion products may be fatal and should be avoided. Control or eliminate likely ignition sources.

Extinguishing Media: Water spray, carbon dioxide, dry chemical-ABC dry powder, protein-type air foams. Water is most effective. Carbon dioxide may be an ineffective medium due to a lack of cooling capacity

which could result in re-ignition.

Special Fire Fighting Instructions/Procedures: Cool exposed equipment With water spray. Use self-contained breathing apparatus if fighting fire in contained spaces, to prevent inhaling combustion gases. Personnel not having suitable respiratory protection must leave the area immediately to prevent significant exposure to toxic combustion gases from any source.

HAZARDOUS REACTIVITY DATA

Stability: Stable Conditions to Avoid: Avoid heating above 570° F.
Naterials to Avoid: Acatal, acetal copolymers
Hazardous Decomposition Products: Hydrogen chloride, carbon monoxide,
carbon dioxide, small amounts of benzene and aromatic and aliphatic hydrocarbons. Hazardous Polymerization: Will not occur.

MEALTH HAZARD DATA

Primary Routes of Entry:

Ingestion-Obstructive if swallowed. Skin-Not a probable route of entry (topically). Eye-Irritation could occur on contact through inhalation.

Inhalation-Inhalation of lead may result in lead poisoning (see below).

Chronic Health Hazards: Lead poisoning, with symptoms such as tiredness, decreased appetite, metallic taste, abdominal cramps, muscle weakness (wrist and foot drop), headaches, and convulsions.

Medical Conditions Aggravated by Exposure: No adverse health effects expected, however, individuals with bronchial asthma and other types of chronic obstructive respiratory diseases may develop bronchiospasm if exposure is prolonged (see below).

Effects of Overexposure: Depending on the severity of exposure, physiological response will be coughing, pain, and inflammation