

## SAFETY DATA SHEET

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### SECTION 1: General Product and Company Information

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CONTINENTAL MATERIALS, INC.  
1614 OLD YORK ROAD  
ABINGTON, PA 19001

PHONE: 215-884-4930  
FAX: 215-887-4485

CREATION DATE OF DATA SHEET: 5-31-15

TRADE NAME: LionGUARD™ Collated Roofing Nails  
LionGUARD™ Coil Roofing Nails

CHEMICAL FAMILY: Electrogalvanized Roofing Nails

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### SECTION 2: Health Hazard Identification

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**EXPOSURE TYPES** – eye and skin contact, inhalation and ingestion. In the inert form, steel wire should not present any toxic effects.

**POTENTIAL HEALTH EFFECTS:**

**Eyes:** Not anticipated to cause significant eye hazard. Flush well with running water to remove particulates.

**Skin:** Not anticipated to cause significant skin hazard. Sharp metal fastener may cut skin. Wash well with soap and water.

**Ingestion:** Not anticipated to cause significant hazard in normal form. May cause irritation of mouth and throat. Consult physician.

**Inhalation:** Not anticipated to cause significant hazard in normal form. Remove to fresh air.

**ACUTE HEALTH HAZARDS:** See above.

**CHRONIC HEALTH HAZARDS:** N/A.

**CARCINOGENICITY:** Chromium, Cadmium and Nickel have been included on NTP's list of carcinogens. Gloves should be worn when handling Chromium, Nickel and Cadmium treated metals.

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### SECTION 3: Information on Ingredients

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Chemical Name	CAS#	%	ACGIH	OSHA
Product: Iron (Fe)	7439-89-6	balance	TLV: 5.0mg/m <sup>3</sup> (inhalable fraction)	PEL: 10 mg/m <sup>3</sup> - Ceiling (15 min. fumes)
Product: Galvanized Zinc (Zn)	7440-66-6	1-4.5		
Carbon	7440-44-0	0.0-3.7	3.5 (as carbon black)	N/A
Chromium	7440-47-3	0.0-0.1	0.05	0.1
Copper	7440-50-8	0.0-.022	0.2	0.1
Manganese	7439-96-5	0.0-1.0	1	5
Nickel	7440-21-3	0.0-0.10	1	1
Silicon	7440-21-3	0.0-0.30	10 (dust)	10
Trace Elements	(P, Mo, B, Sn, S)	0.0-1.10	N/A	N/A
Galvanizing coating is 99% Zinc. Above weight % is total % Zinc of all wire components.				

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**SECTION 4: First Aid Measures**

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**FIRST AID MEASURES:**

**Eye Contact:** Immediately flush eyes with plenty of water for at least 20 minutes. Ensure adequate flushing of eyes by separating the eyelids with fingers. Get medical attention, if irritation or symptoms of exposure continues.

**Skin Contact:** Wash affected area thoroughly with soap and water. Get medical attention for cuts.

**Inhalation:** – In normal use not expected to be inhaled. Remove to fresh uncontaminated air.

**Ingestion:** Not expected to be ingested. If this product is ingested, rinse mouth with water to remove material or dust and drink plenty of water to help reduce the irritation. Seek medical assistance.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** This product is a mechanical irritant and is not expected to produce any chronic effects from acute exposures. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary.

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**SECTION 5: Fire and Explosion Hazard Info and Data**

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**EXTINGUISHING MEDIA:** Use CO<sub>2</sub>, dry chemical or foam. Do not use water on molten metals.

**HAZARDOUS COMBUSTION PRODUCTS:** Avoid breathing metal oxide fumes that may cause metal fume fever. Do not use water on molten metals.

**SPECIAL FIRE FIGHTING PROCEDURES:** Do not use water on molten metals.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Avoid breathing metal oxide fumes that may cause metal fume fever. Do not use water on molten metals.

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**SECTION 6: Accidental Release Measures**

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**CLEANUP METHODS:** Pick up or sweep up large pieces.

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**SECTION 7: Handling and Storage**

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**HANDLING/ STORAGE:** No specific handling or storage requirements.

**OTHER PRECAUTIONS:** None.

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**SECTION 8: Exposure Controls / Personal Protection**

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**ENGINEERING CONTROLS:** N/A

**PERSONAL PROTECTION:** N/A

**Eyes/Face:** Wear safety glasses with shields.

**Skin:** None required. Cotton or leather gloves may be worn when handling for comfort.

**Respiratory:** Avoid breathing metal oxide fumes that may cause metal fume fever. Do not use water on molten metals. Avoid dust when grinding these materials.

**Work Hygienic Practices:** Wash exposed skin prior to eating, drinking or smoking and at the end of each work shift.

**Exposure Guidelines:** N/A

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**SECTION 9: Physical Data**

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**PHYSICAL STATE:** Solid

**APPEARANCE and ODOR:** grey-silver metal, odorless.

**BOILING POINT:** N/A

**MELTING POINT:** greater than 1400 degrees F

**FLASH POINT:** N/A  
**VAPOR PRESSURE:** N/A  
**VAPOR DENSITY:** N/A  
**SPECIFIC GRAVITY:** 7.6-7.8.  
**PERCENT VOLITILE BY VOLUME:** N/A  
**EVAPORATION RATE:** N/A  
**SOLUBILIY IN WATER:** N/A

## SECTION 10: Reactivity Data

**STABILITY:** Stable under normal conditions  
**CONDITIONS TO AVOID:** Avoid flames and excessive heat.  
**INCOMPATIBILITY:** May react with strong acids, water reacts violently with molten metals.  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Fumes and certain noxious gases, such as CO, may be produced from welding or burning operations. Metal oxide fumes can result if temperature exceed the melting point for the metal.

## SECTION 11: Toxicological Information

**TOXICOLOGICAL INFORMATION:** No information available.

## SECTION 12: Ecological Information

**ENVIRONMENTAL:** No data available for this material.

## SECTION 13: Disposal Considerations

**WASTE DISPOSAL METHOD:** Sweep up.  
**WASTE DISPOSAL:** Any excess waste product can be recycled to further use, disposed in hazardous waste landfill, or disposed by other methods in accordance with Local, State and Federal regulations.  
**COMPONENT WASTE NUMBRERS:** No EPA Waste Numbers are applicable for this product

## SECTION 14: Transport Information

**U.S. D.O.T. SHIPPING:** Not regulated as a hazardous material for transportation.

## SECTION 15: Regulatory Information

**SARA:** This material contains the following chemicals subject to the reporting requirements under SARA Title III Section 313 (40CFR 372).

Chemical Name	CAS#	MAX. WT. %
CHROMIUM	7740-47-3	0.10
MANGANESE	7439-96-5	1.0
NICKEL	7440-02-0	0.10
ZINC (fume or dust)	7440-66-6	4.5

**RCRA:** Depending on waste form, toxicity characteristics limits for certain metals may be exceeded, compliance with local, state and federal regulations covering waste disposal is required.

**CALIFORNIA PROP 65:** The following statement is based on the requirement of California's Proposition 65 (1986): This product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. Other state regulations may apply. Check individual state requirements.

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**SECTION 16: Other Information**

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**ADDITIONAL COMMENTS:** None

**SDS REVISION DATE:** May 2015

**DISCLAIMER:** Reasonable care has been used in the preparation of this MSDS information, but the manufacturer and supplier make no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. Final determination of suitability of any material is the sole responsibility of the user. The manufacturer and supplier make no representations and assume no liability for any direct, incidental or consequential damages resulting from its use.