

# SAFETY DATA SHEET

## Section 1: Identification

**Product Name:** Galvanized (zinc-coated) Steel Wire, used for 'Woven Wire Plaster Base,' aka, 'Stucco Netting'

**Chemical Name/Synonyms:** Mixture

**Company:** Preferred Wire Products, Inc., 401 N. Minnewawa Ave., Clovis, CA 93611 P: 559-324-0140

**In an Emergency:** call 911.

## Section 2: Hazard(s) Identification

**Hazard Classification:** Not Classified.

**Hazard Statements:** This product doesn't meet the criteria for classification.

**Precautionary Statements:** None required.

**Description of other hazards:** There are no OSHA-defined hazard classes. This product is an alloy. Under normal conditions of use and handling, it should not present any hazards. But if treated to heat or grinding, the product may release fumes and/or dust.

## Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
Iron	Iron	7439-89-6	90-99 %
Zinc	Zinc, 'Galvanized'	7440-66-6	1.0-5.0 %
Manganese	Manganese	7439-96-5	0.1-1.0 %
Chromium	Chrome	7440-47-3	< 0.15 %
Nickel	Nickel	7440-02-0	< 0.15 %
<i>Zinc Oxide (NOTE: zinc oxide fumes may become present at high temperatures (ie., welding, grinding). It will not exist under normal use and conditions.</i>	Zinc Monoxide	1314-13-2	< 1.0 %

#### Section 4: First-Aid Measures

**After skin contact:** Nothing usually required from a chemical perspective. However, if any irritation occurs, wash effected areas with soap and water and then seek medical advice.

**After eye contact:** Nothing usually required from a chemical perspective. However, if any irritation occurs, wash effected areas with soap and water and then seek medical advice.

**After inhalation:** Nothing usually inhaled. However, if material is heated or ground upon, move to fresh air. If breathing becomes difficult, provide oxygen. If breathing has stopped, give artificial respiration immediately. Seek immediate medical attention/advice.

**After swallowing:** Ingestion is not considered a potential route of exposure. However, seek immediate medical attention should this occur.

#### Section 5: Fire-Fighting Measures

**Suitable extinguishing agents:** Water, Foam, Dry Chemical Powders, & Carbon Dioxide (CO<sub>2</sub>) are all suitable. Do not use water if the material is molten or if dust is involved, as this may spread the fire.

**Special Hazards Arising from the substance/mixture:** No unusual fire or explosion hazards.

**Hazardous Combustion Products:** Metal oxides; especially zinc oxide, fumes may be generated should heat (welding, grinding, etc.) be applied.

**Special protective equipment for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures.

#### Section 6: Accidental Release Measures

**Personal precautions:** Protective clothing and eyewear protection must be worn when handling this product. Keep away from extreme heat and fire.

**Measures for environmental protection:** Do not dispose into waterways.

**Measures for cleaning/collecting:** Undamaged product can usually be reclaimed. Otherwise collect and discard into a suitable container for disposal.

#### Section 7: Handling and Storage

**Handling:** Protective clothing and eyewear protection must be worn when handling this product. Keep away from extreme heat and fire.

**Storage:** Store in a dry, covered place.

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

**Exposure Limits**

There are no established Exposure Limits from the manufacturer or appropriate advisory agency (ie., ACGIH (TLV), NIOSH (REL), OSHA (PEL)) for substances in Section 3 not listed here.

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Iron	Not Available	Not Available	Not Available	Not Available
Zinc	Not Available	Not Available	Not Available	Not Available
Manganese	5 mg/m <sup>3</sup> (fume)	Not Available	0.02 mg/m <sup>3</sup> (respirable) 0.1 mg/m <sup>3</sup> (inhalable)	Not Available
Chromium	1 mg/m <sup>3</sup>	Not Available	0.5 mg/m <sup>3</sup>	Not Available
Nickel	1 mg/m <sup>3</sup>	Not Available	1.5 mg/m <sup>3</sup> (inhalable)	Not Available
Zinc	5 mg/m <sup>3</sup> (fumes) 15 mg/m <sup>3</sup> (dust) 5 mg/m <sup>3</sup> (respirable)	Not Available	2 mg/m <sup>3</sup> (respirable)	Not Available

**General protective and hygienic measures:** Always wear protective clothing and protective eyewear. Wash hands with soap and water after using.  
**Breathing equipment:** Not normally required.  
**Protection of hands:** A must.  
**Eye protection:** A must.

**Section 9: Physical and Chemical Properties**

**Form:** Solid  
**Odor:** Odorless  
**Odor threshold:** Not applicable  
**pH:** Not applicable  
**Melting point/melting range:** Steel at 2498 °F / 1370 °C. Zinc Coating at 790 °F / 422 °C  
**Boiling point/boiling range:** Steel at 5432 °F / 3000 °C. Zinc Coating at 1665 °F / 907 °C  
**Flash point:** Not flammable  
**Evaporation rate:** Not applicable  
**Flammability:** Not flammable  
**Upper/lower flammability or explosive limits:** Not available  
**Auto ignition temperature:** Not applicable  
**Danger of explosion:** None  
**Vapor pressure:** Not available  
**Vapor density:** Not available  
**Relative density:** 7.85  
**Solubility in/Miscibility with water:** Insoluble

## Section 10: Stability and Reactivity

**Reactivity:** The product is stable and non-reactive under normal conditions of storage, use, and transport. Contact with most acids will discharge flammable hydrogen gas.

**Chemical stability:** Stable under normal conditions.

**Conditions to avoid:** High heat or dust-creating operations upon the material.

**Incompatible materials:** Acids, bases, reducing agents.

**Hazardous decomposition products:** None known.

## Section 11: Toxicological Information

**Acute toxicity:** Not classified

**Potential routes of exposure/potential health effects:**

**Skin:** Not classified

**Eye:** Not classified

**Inhalation:** Not classified

**Ingestion:** Not classified

**Carcinogenic effects:** This product could expose you to chemicals, including nickel compounds, which are known to the State of California to cause cancer and/or reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Mutagenic effects:** Not classified

**Reproductive toxicity:** This product could expose you to chemicals, including nickel compounds, which are known to the State of California to cause cancer and/or reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Sensitization:** Mechanical irritation if exposed for long periods of time.

**Target organs:** Skin

## Section 12: Ecological Information (non-mandatory)

**Ecotoxicity:** Not classified as environmentally hazardous. But this doesn't exclude a potentially harmful or damaging effect from large or frequent dumping of the product into the environment.

### **Nickel (7440-02-0)**

LC50 Fish 1: 100mg/l (Exposure Time: 96 h; Species: Brachydanio rerio)

EC50 Daphnia 1: 13 (13-200) µg/l (Exposure Time: 48 h; Species: Ceriodaphnia dubia [static])

LC 50 Fish 2: 1.3mg/l (Exposure Time: 96 h; Species: Cyprinus carpio [semi-static])

EC50 Daphnia 2: 1mg/l (Exposure Time: 48 h; Species: Daphnia magna [static])

EC50 Other Aquatic Organisms 2: 0.174 (0.174-0.311) mg/l (Exposure Time: 96 h; Species: Pseudokirchneriella subcapitata [static])

### **Manganese (7439-96-5)**

NOEC chronic fish: 3.6 mg/l (Exposure Time: 96 h; Species: Oncorhynchus mykiss)

### **Copper (7440-50-8)**

LC50 Fish 1: <=0.0068 (0.0068-0.0156) mg/l (Exposure Time: 96 h; Species: Pimephales promelas)

EC50 Daphnia 1: 0.03 mg/l (Exposure Time: 48 h; Species: Daphnia magna [static])

EC50 Other Aquatic Organisms 1: 0.0426 (0.0426-0.0535) mg/l (Exposure Time: 72 h; Species: Pseudokirchneriella subcapitata [static])

LC 50 Fish 2: 0.3 mg/l (Exposure Time: 96 h; Species: Pimephales promelas [static])

EC50 Other Aquatic Organisms 2: 0.031 (0.031-0.054) mg/l (Exposure Time: 96 h; Species: Pseudokirchneriella subcapitata [static])

### **Zinc (7440-66-6)**

LC50 Fish 1: 2.16-3.15 mg/l (Exposure Time: 96 h; Species: Pimephales promelas [flow-through])

EC50 Daphnia 1: 0.139-0.908 mg/l (Exposure Time: 48 h; Species: Daphnia magna [static])

LC50 Fish 2: 0.211-0.269 mg/l (Exposure Time: 96 h; Species: Pimephales promelas [semi-static])

Er50 (algae): 0.15 mg/l

**Mobility:** Not available

**Biodegradation:** Not readily biodegradable

**Bioaccumulation:** Not Available

### Section 13: Disposal Considerations (non-mandatory)

**Waste Disposal Recommendations:** Dispose waste material in accordance with all local, regional, national, &/or international regulations. **This product can be recycled;** recycle where possible. Do not dispose into sewage, drains, or waterways of any kind.

### Section 14: Transport Information (non-mandatory)

**UN number:** None

**UN proper shipping name:** Not Regulated

**Transport hazard class:** Not Regulated

**Packing group:** None

**Environmental hazards (e.g., Marine pollutant (Yes/No)):** See Section 12, Ecological Information

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not Applicable

**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises:** None Known

**DOT regulations:** Not regulated.

- **Hazard class:** N/A
- **Land transport ADR/RID (cross-border):** Not Regulated
- **ADR/RID class:** N/A
- **Maritime transport IMDG:** Not Regulated

**Air transport ICAO-TI and IATA-DGR:** Not Regulated

- **ICAO/IATA Class:** N/A

### Section 15: Regulatory Information (non-mandatory)

**US Federal Regulations:** Components shown here are present on the following U.S. Federal chemical lists:

Ingredients:	Iron	Zinc	Manganese	Chromium	Nickel	Zinc Oxide
CAS No.	7439-89-6	7440-66-6	7439-96-5	7440-47-3	7440-02-0	1314-13-2
TSCA Inventory	Yes	Yes	Yes	Yes	Yes	Yes
CERCLA Reportable Quantity (40 CFR 117.302)	N/Av	1000lb/454kg	None	5000lb/2270kg RQ**	100lb/45.4kg	None
SARA Title III: Sec. 302 (Extremely Hazardous Substance, 40 CFR 35)	N/Av	None	None	N/Av	None	None
SARA Title III: Sec. 313, 40 CFR 372 (Specific Toxic Chemical)	No	Yes	Yes	Yes	Yes	No
de minimus Concentration	N/Av	1%	1%	1%	0.1%	N/Av

\*\* No reporting of releases of this hazardous substance is required if the diameter of the pieces of solid metal are larger than 100 micrometers

SARA Title III: Sec. 311 & 312, SDS Requirements, 40 CFR 370 Hazard Classes: NOT a hazard under normal conditions of use. Under SARA Sec. 311 & 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 lb for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances, and 10,000 lb for all other hazardous chemicals.

**U.S. State Right to Know Laws:** Chemicals shown here are specifically listed by individual States:

Ingredients	CAS No.	CA Prop 65		State 'Right to Know' Lists					
		Listed	Toxicity Type	CA	MA	MN	NJ	PA	RI
Iron	7439-89-6	No	N/Av	YES	No	No	No	No	No
Zinc	7440-66-6	No	N/Av	YES	YES	No	YES	YES	YES
Manganese	7439-96-5	No	N/Av	YES	YES	YES	YES	YES	YES
Chromium	7440-47-3	No	N/Av	YES	YES	YES	YES	YES	YES
Nickel	7440-02-0	YES	Cancer	YES	YES	YES	YES	YES	YES
Zinc Oxide	1314-13-2	No	N/Av	YES	YES	YES	YES	YES	YES

## Section 16: Other Information

**SDS Prepared by:** Preferred Wire Products, Inc.

**SDS date of preparation/update:** 6/6/2019

**DISCLAIMER:**

1. This Safety Data Sheet (SDS) was prepared by Preferred Wire Products, Inc., using information provided by and/or obtained from CCOHS' Web Information Service. The information in this SDS is offered for your consideration and guidance when exposed to this product. The data in this SDS does not apply once used with any other product or in any other process.
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