

# MASTER SAFETY DATA SHEET

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Issued: May 22, 2002

Revised:

Revision n.

Name of the Product: ZINC WIRE

## 1. CHEMICAL PRODUCT AND SUPPLIER INFORMATION:

1.1. Product information:	ZINC WIRE	Identification number:	P3010701
1.2. Supplier information:	<b>INTER.MET s.r.l., Via 4 Novembre 18, 27036 Mortara, Pavia, Italy</b>		
1.2.1 Name of importer:	.		
1.2.2 Manufacturer's name:	.		
1.2.3 Distributor's name:	.		
1.2.4 Emergency phone number:	<b>+39 335 1270677</b>		

## 2. COMPOSITION, INFORMATION ON HAZARDOUS INGREDIENTS:

2.1. Common name:	Zinc wire – EN1179, DIN 1706, DIN 8566						
2.2. Hazardous components:	No hazardous components						
Chemical name	Index	CAS n.	EC	ut. %	Hazard symbol	Risk phrases	Safety phrases
Zinc		7440-66-6					

## 3. HAZARDS IDENTIFICATION:

3.1. General hazards :	Zinc wire as a product is harmless.
3.2. Specific hazards:	In contact with acids or strong alkaline substances produces chemical reaction with the development of hydrogen. Heating over 650°C causes evaporation with the development of ZnO.
3.3. Exposure symptoms:	Exposure to ZnO may result in coughing, nausea, and headache. Trouble disappears after 1-2 days without consequences.

## 4. FIRST AID:

4.1. General instructions:	Required only in case of inhalation of zinc oxides or dust, or in case of burns by melted zinc during treatment (like metallization).
4.2. Inhalation:	Take injured person to fresh air, seek medical assistance if necessary.
4.3. Skin contact:	Rinse skin burns under running water abundantly. In case of large scale burns, seek medical assistance.
4.4. Contact with eyes / mycoses:	Immediately flush the injured eye with large quantities of running water, call medical assistance.
4.5. Ingestion:	In case of nausea inhale fresh air. Seek medical assistance if necessary.
4.6. First aid procedure at workplace:	Retreat to fresh air, flushing with water.

**5. FIRE FIGHTING:**

5.1. Extinguishing media:	No limitations in case of fire in the vicinity. Fire caused by spilled melted zinc is extinguished with D-class fire-fighting media. Water and CO <sub>2</sub> are not considered adequate extinguishing media for melted zinc.
5.2. Specific hazards:	Explosion, expansion of fire in case of extinguishing with water.
5.3. Specific protective fire-fighting equipment, with indication of standard, if any:	Protective mask for eyes and respiratory organs, hard hat, fire-proof overall, boots and gloves.

**6. ACCIDENTAL RELEASE:**

6.1. Personal safety measures:	Zinc wire is in solid state, release or spillage is not possible.
6.2. Environment protection:	
6.3. Disposal procedure:	

**7. HANDLING AND STORAGE:**

7.1. Handling the product:	
7.1.1 Safety measures:	
7.1.2 Technical measures:	
7.1.3 Recommended and prohibited procedures:	
7.2. Storage:	In cool and dry place.
7.2.1 Safe storage conditions:	Store in original wrapping, in cool and dry place.
7.2.2 Incompatible products:	Do not store acids in the same warehouse.
7.2.3 Specific packaging requirements:	Protective wrapping foil, drum, pallet suitable for forklift handling.
7.2.4 Static electricity protection:	

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

8.1. Technical protection:	
8.2. Control parameters:	
8.3. Personal protection equipment:	Protective clothing, hat, boots, goggles and gloves, gas mask with adequate filter insert.
8.3.1 Respiratory protection (hands, eyes, skin):	Venting of space with metallization procedure, or any other procedure resulting in melted zinc.
8.3.2 Skin and body protection:	See 8.3
8.3.3 Protection of hands:	See 8.3
8.3.4 Eye protection:	See 8.3
8.3.5 General industrial hygiene:	Follow general safety at work rules and regulations

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Product name: ZINC WIRE

9.1. Appearance:	Silver colored metal wire.
9.2. Odour:	Metallic
9.3. pH:	-
9.4. Boiling point:	906°C
9.5. Melting point:	419°C
9.6. Flash point:	-
9.7. Point of ignition:	Close to boiling point
9.8. Self-ignition:	Close to boiling point
9.9. Explosive properties:	Possible in case of melted zinc contact with water.
9.10. Oxidizing properties:	Superficial corrosion in presence of humidity and absence of air.
9.11. Vapor pressure:	1.33 kPa at 487°C
9.12. Relative density:	7200 kg/m <sup>3</sup>
9.13. Solubility:	Insoluble.
9.14. Spreading ratio:	-
9.15. Miscellaneous:	
9.16. Notes:	
<b>10. STABILITY AND REACTIONS:</b>	
10.1. Stability and reactivity:	Product is stable, dangerous reaction only in contact with acids.
10.1.1 Conditions to avoid:	Storage in damp areas.
10.1.2 Incompatible substances:	Acids, water.
10.2. Hazardous decomposition substances:	Zinc oxides (only in case of melting).
10.3. Other information:	Re-crystallization at 320°C.
<b>11. TOXICOLOGICAL INFORMATION</b>	
11.1. Acute toxicity:	Zinc is not toxic.
11.2. Chronic toxicity, or prolonged exposure effects:	
11.3. Over-sensitivity:	
11.4. Specific effects:	
<b>12. ECOLOGICAL TOXICAL INFORMATION:</b>	
12.1. Mobility:	Zinc wire is ecologically immaculate.
12.2. Decomposition:	
12.3. Accumulation:	
12.4. Short and long term effects on environment:	No negative effects on environment.
12.5. Other harmful effects to environment:	
<b>13. DISPOSAL:</b>	

13.1. Product:	Zinc wire may be recycled completely by melting during the production process.
13.2. Contaminated packaging:	Packaging is not contaminated.

**14. TRANSPORT INFORMATION:**

14.1. ADR / RID / IMCA / IATA / :	Zinc wire is not classified as hazardous substance, so no specific regulations have to be followed during transport.
14.1.1 CLASS; number, letter	.
14.1.2 UN number:	.
14.1.3 Label:	.
14.1.4 Required safety measures:	Product must be protected against moisture and mechanical impact, regardless of the form of transport.

**15. LEGAL REGULATORY REQUIREMENTS:**

15.1. EC Classification, lettering, hazard labels, S and R (along with wording), special regulations:	
15.1.1 Classification:	.
15.1.2 Labeling:	.
15.1.3 Cautions:	.
15.1.4 Notices:	.
15.1.5 Specific provisions:	.
15.2. Regulations/Standards:	

**16. MISCELLANEOUS:**

16.1. Training of personnel:	Safety at Work Certificate.
16.2. Recommended or limited use of product:	No limitations.
16.3. Instructions:	Technical information from the manufacturer.
16.4. Sources:	