

Material Safety Data Sheet

Hard Drawn Wire

(Control No: MSDS-SW-1501 Date: January 2, 2017 Version: 9)

1. Product and Company Identification		
1.1 Product name :	Hard Drawn Wire	
1.2 Uses :	Spring Wire	
1.3 Company Identification :		
- Company Name	HONGDUK INDUSTRIAL Co., Ltd	
- Address :	#1855 Janghung-Dong, Nam-Gu, Pohang-City, Kyungbuk, Korea	
- Emergency phone :	82-(0)54-271-3650	
- Telefax :	82-(0)54-271-3699	
- Preparer section :	Quality Control team	

2. Hazards Identification

2.1 Hazardous, Risk Classification

- Acute toxicity substances(oral)	section 4
- Skin corrosive or irritant substances	section 2
- Serious eye damage or irritant substances	section 2A

2.2 Warning Notice Item

O A Pictorial Symbol



O Signal Words : Warning

O Hazardous, Risk Stationery

- (Oral) Harmful if swallowed

- Skin irritation

- Severe eye irritation

O Precaution Stationery

- Prevention

P264	Wash your hands thoroughly after handling.
P270	Ban taking, swallowing or Inhaling when using this product.
P280	Wear facemask, protective gloves, protective clothing, goggles
- Response	
P301+P312	Seek the assistance of medical institutions(doctors) if you feel inconvenient after swallowed
P330	Rinse your mouth.
P332+P313	If skin irritation occurs seek medical advice.
P362	Removing contaminated clothing and wash before reuse.

P305+P351+P338 Wash your eyes cautiously with water for several minutes when foreign substance got in them.

	If possible, remove the lens.	
	Continue rinsing	
P337+P313	Seek medical advice if eye irritation persists.	

- Save

- Disuse

2.3 Other Hazard that doesn't include the criteria for hazardous, risk classification

O NFPA In	ndex
-----------	------

- Health	Not available
- Fire	Not available
- Reactivity	Not available

3. Composition / Information on Ingredients

Ingredient		CAS No.	Contents
Base metal	Fe	7439-89- 6	
Impurities	С	7440-44-0	0.24 ~ 0.86%
	Si	7440-21-3	0.15 ~ 0.35%
	Mn	7439-96-5	0.30 ~ 0.90%
	Р	7723-14-0	< 0.03%
	S	7704-34-9	< 0.03%
Etc.		Ingre	dient
Surface coating	Coating	Zinc Phosp	hate + Lime
	Lubricant	Metallic soap	(Ca, Na-base)

4. First-Aid Measures

4.1 Inhalation :	Not available (Not possible as solid state)
4.2 Skin Contact :	Not available (If physically hert, consult a physician)
4.3 Eye contat :	It cause loss of eye sight check over an eye doctor immediately.
4.4 Ingestion :	Not available
5. Fire and Explosion hazards	
5.1 Flash point :	Not available
5.2 Flammable limits in air :	Not available
5.3 Extinguishing media :	Not available
5.4 Special firefighting procedures :	Fire danger could be ignored.
5.5 Unusual fire & Explosion hazards :	Not available
6. Accidental Release Measures	
6.1 Personal precautions :	Not available (Harmless chemically)
6.2 Environmental Precautions :	Not available (Harmless chemically)

7. Handling and Storage

7.1 7.2

Handling :	Care in handling to avoid mechanical injury.
Storage :	Stocking product boxes under 2-layer is required.

If over stocking could cause physical deformation of wooden boxes.

o. Exposure controls / refsolut protection		
8.1 Engineering controls :	Not required	
8.2 Resipiratory protection :	Not required	
8.3 Ventilation :	Not required	
8.4 Protective gloves :	Wear not penetration of humudity gloves.	
8.5 Eye protection :	wear goggles or safety glasses.	
8.6 Other protective clothing or equipment :	None	
8.7 Work/Hygienic practices :	Wash hands after handling wire are recommended.	

8. Exposure controls / Personal protection

9. Physical and Chemical Properties

9.1 Appearance/Odor :	Solid, No odor, Copper Colored	
9.2 Important health, safety and environmental information		
- Boiling Range :	None	
- Vapor Density :	None	
- Evaporation rate :	None	
- Specific gravity :	7.8	
- Solubility in water :	Insoluble	
- Appearance and smell :	Linear solid with no smell	

10. Stability and Reactivity

10.1	Stability :	Stable
10.2	Conditions to avoid :	Hot and humidity conditions
10.3	Materials to avoid :	None
10.4	Hazardous decomposition to byproducts :	None

11. Toxicological Information

11.1 Inhalation :	Not possible as solid state.
11.2 Skin and eye contact health risks	No harmful but, can be hurt by physically.
and symptoms of exposure :	Eye contact can cause loss of eye sight.
11.3 Ingestion health risks and	None
symptoms of exposure :	
11.4 Health hazards (Acute and chronic) :	None
11.5 Carcinogenicity :	None

12. Ecological information

12.1 Ecotoxicity :	None
12.2 Mobility :	None
12.3 Persistence and degradability :	None
12.4 Bioaccumulative potential :	None

13. Disposal Consideration

13.1 Waste disposal method : Material should be recycled.

14. Transport Information	Not regulated
15. Regulatory Information	
15.1 Industrial safety of health law	None
15.2 Toxic chemicals control act	None
15.3 Other regulatory information	None
16. Other Information	None