

Material Safety Data Sheet

Hard drawn piano wire

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

1. Product and Company Identification

- 1.1 Product name : Hard drawn piano 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 Index

- 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	C	7440-44-0	0.60 ~ 0.95%
	Si	7440-21-3	0.12 ~ 0.32%
	Mn	7439-96-5	0.30 ~ 0.90%
	P	7723-14-0	< 0.025%
	S	7704-34-9	< 0.025%
	Cu	7440-50-8	< 0.20%
Etc.			
Surface coating	Coating	Zinc Phosphate + 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 Handling : Care in handling to avoid mechanical injury.
7.2 Storage : Stocking product boxes under 2-layer is required.
If over stocking could cause physical deformation of wooden boxes.

8. Exposure controls / Personal protection

- 8.1 Engineering controls : Not required
8.2 Respiratory protection : Not required
8.3 Ventilation : Not required
8.4 Protective gloves : Wear not penetration of humidity 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.

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.

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| 11.3 Ingestion health risks and symptoms of exposure : | None |
| 11.4 Health hazards (Acute and chronic) : | None |
| 11.5 Carcinogenicity : | None |

12. Ecological information

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

13. Disposal Consideration

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| 13.1 Waste disposal method : | Material should be recycled. |
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14. Transport Information

Not regulated

15. Regulatory Information

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| 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