

Material Safety Data Sheet

Galvanized Hard Drawn Wire

(Control No : MSDS-SW-0810 Date : Oct. 28th 2008 Version : 2)

1. Product and Company Identification

- 1.1 Product name : Galvanized Hard Drawn Wire : SW-C
- 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 790-240
 - Emergency phone : 82-(0)54-271-3650
 - Telefax : 82-(0)54-271-3699
 - Preparer section : Quality Control team

2. Composition / Information on Ingredients

| Ingredient | CAS No. | Contents |
|------------|---------------|----------|
| Iron (Fe) | 7439 - 89 - 6 | > 99.9% |
| Zn | 7440-66-6 | > 0.1% |

3. Hazards Identification

- 3.1 General characteristics : Solid metals
- 3.2 Harmfulness : Harmless (Non toxic)

4. First-Aid Measures

- 4.1 Inhalation : Not available (Not possible as solid state)
- 4.2 Skin Contact : Not available (If physically hurt, consult a physician)
- 4.3 Eye contact : Get medical attention immediately.
- 4.4 Ingestion : Not available

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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

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|---------------------------------|-------------------------------------|
| 6.1 Personal precautions : | Not available (Harmless chemically) |
| 6.2 Environmental Precautions : | Not available (Harmless chemically) |

7. Handling and Storage

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|----------------|--|
| 7.1 Handling : | Care in handling to avoid mechanical injury. |
| 7.2 Storage : | Two or less layers of loading is required. If multi-layer loading is carried out, products can be damaged. It is the ban on storage to a damp place. |

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. |



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9. Physical and Chemical Properties

| | |
|--|-----------------------------|
| 9.1 Appearance/Odor : | Light Grey Color / Odorless |
| 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 and symptoms of exposure : | No harmful but, can be hurt by physically. Eye contact can cause loss of eye sight. |
| 11.3 Ingestion health risks and symptoms of exposure : | None |
| 11.4 Health hazards (Acute and chronic) : | None |
| 11.5 Carcinogenicity : | None |



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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 |
| 15.4 This product did not violate a regulation in "REACH". | |

16. Other Information

None