

Supplier: Yieh Corp.

No.6, E-Da Rd., Yanchao Township, Kaohsiung County, Taiwan 82445, R. O. C.

Tel:886-7-6151000 Fax:886-7-6153000 E-Mail:ec@yieh.com Website:http://www.yieh.com

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION:

Supplier: Yieh Corp.

Product Name: Stainless Steel

Date of Prep: 12 March 2009/3/12

**MSDS: Fabricated  
Stainless Steel  
Letters**

## 2. COMPONENTS / INFORMATION ON INGREDIENTS:

Component	CAS No.	% by Weight
Iron	7439-89-6	Balance
Carbon	1333-86-4	0.08
Silicon	7440-21-3	0.75
Manganese	7439-96-5	2.00
Nickel	7440-02-0	8.00~10.50
Sulfur	7446-09-5	0.03
Phosphor	7723-14-0	0.45
Chromium	7440-47-3	18.00~20.00
Nitrogen	7727-37-9	0.10 Max

## 3. CONTENTS OF HAZARDOUS SUBSTANCES FOR ENVIRONMENT CARE USED IN THE MATERIALS:

Name of Hazardous Substance	Used	Contain
Cadmium and Cadmium compounds	×	$Cd \leq 0.01\%$
Lead and Lead compounds	×	$Pb < 0.1\%$
Mercury and Mercury compounds	×	$Hg \leq 0.1\%$
Chromium hexavalent and Chromium compounds	×	$Cr^{6+} \leq 0.1\%$
Polybrominated biphenyls	×	$PBB \leq 0.1\%$
Polybrominated biphenyls ethers	×	$PBDE \leq 0.1\%$

× : not used

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#### 4. PHYSICAL DATA:

Boiling Point: High  
Specific Gravity: 7.5~8.5  
Melting Point: 2400~2800 °F  
Solubility: Insoluble  
Appearance and Odor: Solid, odorless metal

#### 5. FIRE-FIGHTING MEASURES:

Flammable Properties: Non-flammable  
Flash Point: N/A  
Extinguishing Media: Water spray, Carbon dioxide, Dry chemical powder  
Special Firefighting Procedures: As in any fire, wear self-contained breathing apparatus, and full protective gear  
Fire and Explosion Hazards: None

#### 6. EXPOSURE CONTROL / PERSONAL PROTECTION:

Acute Effects: Welding and high temperature cutting may produce dust and fumes. Short-term exposure may cause nausea, fever, irritation of eyes, nose, throat, skin.

Chronic effects: Long-term exposure to welding fumes, gases or dust may result in skin sensitization, neurological damage and respiratory disease.

Inhalation: inhalation of excessive fume or dust concentrations may result in respiratory tract irritation.

Eyes Protection: Mechanical irritation may result from an accumulation of dust particles in the eye.

Skin Protection: Some skin irritation may result from exposure to dust.

Ingestion: Some constituents may be harmful if swallowed.

Symptoms of Exposure: Metallic taste, fever, loss of consciousness due to welding gases.

Carcinogenicity: Chromium, nickel and chromium-cobalt alloys have been identified by the international agency for research on cancer as potential cancer-causing agents.

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## 7. FIRST AID MEASURES:

Inhalation: Move person to fresh air

Skin Contact: Wash with water

Eye Contact: Flush with water thoroughly

Ingestion: Get medical attention. Wash out mouth with water if person is conscious.

## 8. STABILITY AND REACTIVITY:

Materials to Avoid: Reacts with strong acids to product hydrogen gas.

Stability: Stable

Hazardous Decomposition Products: Metallic dust or fumes may be produced during welding, burning, grinding and possibly machining.

## 9. SPECIAL PROTECTION:

Respiratory Protection: Not normally needed. If exposure limits are exceeded, use approved respirator should be worn in accordance with 29CFR 1910.134.

## 10.SPECIAL PRECAUTION:

Handling and Storage: Store in cool, dry place

Work Practices: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. Maintain eyewash capable of sustained flushing, safety drench shower and facilities for washing.

## 11.TRANSPORT INFORMAIION:

Sheet

Hazard Class: Non-hazardous for transport

The information contained from data presented in various technical sources believed to be accurate, but does not purport to be all inclusive and shall be used only as a guide. Yieh Corp. shall not be held liable for any damage resulting from handling or from contact with the above product.

Date: March 2009