

## MATERIAL SAFETY DATA SHEET

### Section 1: Name of chemical and manufacturer information

PRODUCT NAME: FIRE PLUG

MATERIAL: SUS304 STAINLESS STEEL

Supplier's name: Integrity Products & Supplies Inc.

Address: 56 Liberty Road, Sherwood Park, AB T8H 2J6

### Section 2: Information of chemical composition

Information of chemical composition			
Element name	Composition	CAS Number	Percent
Carbon	C	7440-44-0	0-0.08%
Manganese	Mn	7439-96-5	0.5-1.5%
Silicon	Si	7440-21-3	0-0.75%
Phosphorus	P	7723-14-0	0-0.045%
Sulfur	S	7704-34-9	0-0.015%
Chromium	Cr	7740-47-3	18-20%
Nickel	Ni	7740-2-2	8.0-10.5%
Aluminum	Al	7429-90-5	0-0.01%
Copper	Cu	7440-50-8	0-0.5%
Nitrogen	N	7727-37-9	0-0.1%

### Section 3: Physical property

Vapor Pressure: Not Applicable (N/A)

Vapor Density: N/A

Specific Gravity (H<sub>2</sub>O=1): 7.93

Solubility in Water: Insoluble in Water

Evaporation Rate: Insoluble in Water

Freezing Point: N/A

Boiling Point: N/A

PH Information: N/A

Appearance: Silver/Gray/Metallic

Odor: Odorless

Physical State: Solid

### Section 4: Information of fire and explosion hazard:

Flash Point (°C): N/A

Flammability Limits (% / Vol):

LEL: N/A

UEL: N/A

Auto-Ignition Temperature (°C): N/A

Extinguishing Media: No fire or explosion hazards

Special Fire - Fighting Instructions: N/A

Note: Lump material is not combustible, while some metal dust or powders may be flammable, the dry chemical can be used to extinguish.

#### **Section5: Information of chemical reaction:**

Stability (Conditions to avoid): Stable

Incompatibility (Material to avoid): None

Hazardous decomposition products: During certain operations such as welding, burning, melting or hot rolling, metal fumes may be generated. Hexavalent chromium which is a suspect carcinogen may result from the pickling procedure of stainless.

Hazardous polymerization: Will not occur.

#### **Section6: Health hazard data**

Primary Routes of invasive: Inhalation, skin contact.

Effects of overexposure: Stainless, as a solid, non-toxic and presents no health hazard. Overexposure to dusts or fumes which may pose significant health hazards as described below during heating, grinding, cutting, brazing or welding.

Iron: Siderosis, no fibrosis

Nikel: Nickel compounds are suspect carcinogens by inhalation. The most common side effect resulting from exposure to nickel compounds is "nickel Itch", a form of dermatitis.

Chromium: Suspect carcinogen and tumorigenic. Dermatitis may result from exposure to chromium fumes.

Manganese: Can affect central nervous system, including disturbances in gait and speech. Pulmonary system damage may result from inhalation of fume and dust.

Molybdenum: Can irritate the nasal cavity and throat, resulting in the digestive disorder in animals and lose weight.

No industrial poisonings have been reported.

Copper: May be responsible for one form of metal fume fever. Metal fume fever symptoms, include cough, headache, fever, nausea, chilling, pain in muscles and joints, and oral metal odor.

This condition is usually transitory lasting one day or less.

Silicon: May produce X-ray changes in lungs without disability.

Aluminum: No known health effects. Generally considered to be a nuisance dust.

Particulates: As with any dust, eye irritation may occurred.

Medical conditions known to be aggravated by exposure to this material: Persons with lung disease or diseases or skin diseases may be will face more risk because of overexposure to this material.

#### **Section7: First aid and emergency procedures**

Inhalation: Remove from dusty area to fresh air, if discomfort persists, consult physician.

Skin contact: If irritation develops, wash skin thoroughly with soap and water. Seek medical attention if necessary.

Eye contact: Wash eyes with copious amounts of water for 15 minutes to ensure that no particles remain in the eye. Seek medical advice if irritation persists.

#### **Section8: Special handling information**

Ventilation: Ventilation shall be provided in area where exposures are above the permissible exposure limits or threshold limit values specified by OSHA or other local, state, and federal regulations.

Respiratory protection: A properly fitted, NIOSH-approved, dust-fume respirator should be worn during operations that produce dust or fumes that exceed the threshold limit value (TLV) or other recommended limits, in accordance with the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Protective clothing: Use appropriate protective clothing for the job being performed.

Eye protection: Use appropriate eye protection for the job being performed.

### **Section 9: Spill, leak or disposal information**

Spills: Fine material should be swept or vacuumed to avoid creating air-borne dust.

Waste disposal: Dispose in accordance with all applicable federal, state and local regulations.

### **Section 10: Additional information**

Hazardous Material Proper Shipping Name: N/A

Hazard Class: N/A

Identification Number: N/A

EPA hazardous waste number: N/A

### **Section 11: Operation and Storage**

Operation:

- 1、 The edge or section of the board product may cause skin cuts.
- 2、 Metal products due to weight and improper operation could cause crush, so it is should pay attention to hanging in the use to avoid the risk of falling or tipping. (For the crane operators must be finished the professional training and got the qualification)
- 3、 Products have the coil tension when it is curled, so it is should pay attention to the end of the bounce and wounding when cut the packing belt.

Storage: 1、 Stored in a well-ventilated room, it is easy to oxidation under high temperature and humidity environment for a long time.

2、 Avoid exposure to humidity and high temperature of the confined space, and avoid store with the acid and other corrosive substances.