WALSIN LIHWA CORPORATION YENSHUI STAINLESS STEEL DIV. OUAKITY ENGUNEERING SECTION



WALSIN LIHWA CORP.

Safety Data Sheet

To: Zing Zang Metal CO.,LTD.

Date: 2022/01/14

## I. Material and Manufacturer Identification

WALSIN LIHWA CORP. TRADE MARK:

316I.

Product Name: Stainless Steel Bar Chemical Family: Solid Metal

Manufacturer : WALSIN LIHWA CORP.

No. 3-10, Shi Jou Liau Chin Shuei Li. Yenshuei Dist 73743 Tainan City. Taiwan, R.O.C.

Tel: (886) 6-652-0911

## II. Hazards Identification

WALSIN LIHWA CORP, stainless steels, in the various solid forms, as delivered, are NOT known to present immediate inhalation, ingestion, contact or fire health hazards. In such cases, extra precautions appropriate to the operation and industry safety standards should be taken. However, operations such as welding, burring, melting, brazing, peeling, grinding, polishing, and machining etc, which results in the generation of airborne particle or dust may present Potential health hazard.

- Inhalation: Excessive exposed high concentration of dust or metallic particle may cause irritation to the eye, skin and the upper respiratory system. Symptoms consist of chills and fever, metallic taste in the mouth, dryness and irritation of the throat followed by weakness and muscle pain.
- Eye: Particles of metallic compounds or dust, which become imbedded in the eyes.
   may cause stains unless removed fairly promptly. Welding or burning operations on steel or steel products with coatings may present emissions that can be irritating to the eyes.
- Skin: Skin contact with dusts may cause irritation or sensitization.
- Ingestion: Highly unlikely
- Chronic Effects:

Listed as below are certain potential health effects, which apply to hazardous ingredients were found in steel solid metal:

- > Chromium: Suspect careinogen. Acute effects—Bronchial irritation. Chronic effects
  Possible chronic bronchitis, histological fibrosis of lungs, asthma, allergic dermatitis,
  ulcerations of skin and nasal cavities.
- → Copper: (Fume) Acute effects Moderate irritation of eyes, nose, and throat lungs. Metal Fume Fever Chills, nausea fever, dry throat cough metallic taste. Chronic effects – Irritation of lungs. Discoloration of skin, hair.
- → Copper: (Dust and Mist) Acute effects Mild irritation of eyes, nose, throat and skin. Metallic taste. Chronic effects - Irritation of lungs. Dermatitis.

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- → Iron: (Oxide Fume) Acute effects None. Chronic effects Repeated exposure over time may cause lung changes. Benign pneumoconiosis. X-Ray shadows indistinguishable from fibrosis pneumoconiosis.
- Manganese: Acute effects May cause metal fume fever: chills, fever, cough, muscle aches, difficulty in breathing. Chronic effects Cumulative central nervous system damage. (Parkinson like syndrome). Lung damage. Asthenia. Insomnia. Malaise.
- → Molybdenum: Acute effects Irritation of eyes, nose, throat. Weight loss. Chronic effects Cumulative liver and kidney damage. Pneumoconiosis. Blood disorders.
- → Nickel: Suspect carcinogen. Acute effects Respiratory irritation, possibly leading to respiratory disease. Chronic effects Cumulative lung damage. Possible cancer of lungs and nasal cavity. Dermatitis.
- → Silicon: Nuisance particulate. Acute effects Accumulation in lungs, causing respiratory tract irritation. Chronic effects Non-toxic, but a high temperature, silicon can be transformed into silica, posing a silicosis hazard.

## III. Composition / Information on Ingredients

Element	Weight %	CAS number
C (carbon)	0.030max	7440-44-0
Si (Silicon)	1.00max	7440-21-3
Mn (Manganese)	2.00max	7439-96-5
P (Phosphorous)	0.045max	7723-14-0
S (Sulfur)	0.030max	7704-34-9
Ni (Nickel)	10,00~14.00	7440-02-0
Cr (Chromium)	16.00~18.00	7440-47-3
Mo (Molybdenum)	2.00~3.00	7439-89-6
Cu (Copper)		7440-50-8
Al (Aluminum)		7429-90-5
N (Nitrogen)	0.100max	7727-37-9
Ti (Titanium)		7440-32-6
Nb (Niobium)		7440-03-1
V(Vanadium)		7440-62-2
B (Boron)		7440-12-8
Fe (Iron)	Balance	7439-89-6

## IV. First Aid Measures

Utilize standard first-aid procedures as normally administered for situations resulting from day-to-day operation.

Inhalation: Move individual to fresh air, if breathing is difficult or has stooped, administer artificial respiration or oxygen as indicated.

Skin: Wash immediately with water and mild antiseptic detergent.

Eye: Flush with water.
Ingestion: Highly unlikely.

V. Fire-Fighting Messures

None. Product is a metallic solid in wire, rod, bar, strip, sheet, plate or disc form

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VI. Accidental Rel	Acces Magnette				
None. Product is a metallic solid state.					
VII. Handling and Handling: High co	ncentration of airborne particle o	r dust should be evaluated and controlled			
as well, and avoid breathing metal fumes.  Storage: Keep away from acid solution gas and incompatible material.  VIII. Exposure Controls / Personal Protection					
Skin and Eye Protection	Protective clothing, gloves an manufacturing operation.	Protective clothing, gloves and glasses should be worn as warranted by the manufacturing operation.			
Ventilation	In manufacturing or handling procedures creating dust or fumes, exhaust systems should be utilized to exhaust potentially harmful dust particles or fumes.				
IX. Physical and C	Themical Properties				
Physical State So	lid				
Appearance and O	dor: Metallic Gray/Odorless	Flammability(Solid, Gas): None			
Melting Point	13 <b>75-</b> 1450	Auto-ignition Temperature: None			
Specific Gravity	8.00	Flash Point : N/A			
Boiling Point : No	4	Explosion Limit : N/A			
Vapor Pressure : N		Decomposition Temperature : N/A			
Vapor Density : N/A		pH Value : N/A			
Evaporation Rate : N/A		Partition Coefficient (n-octanol/water,			
Solubility in Water		logkow) : N/A			
X. Stability and R					
Stability: Stable		patibility: N/A			
Hazardous decomp	osition : N/A Hazaro	dous polymerization : N/A			
XI. Toxicological	Information				
None, no informati	on is available for the product as	solid metal preparation and article.			
XII. Ecological In	formation				
None, steel produc	ts in wire, rod, bar and other forn	ns do not present an ecological hazard.			
XIII. Disposal Co					
Steel Scrap, dusts of	or fumes all should be recycled w	henever possible.			
XIV. Transport Is	aformation				
in the case of heav	y product, exercise care for preven	ntion of load shifting. It is desirable to cover			
	rpaulin or the like to prevent infi	tration of rain water, etc.			
XV. Regulatory I					
No specific inform					
XVI. Other Infor	mation				
References					
•		1 "Content and Order of Sections"			
(2)Globally Harmo	nized System of Classification at	nd Labeling of Chemicals (GHS) (Rev.4)			