WALSIN LIHWA CORPORATION YENSHUI STAINLESS STEEL DIV. QUAKITY ENGUNEERING SECTION



walsin lihwa corp. Safety Data Sheet

To: Chun Yuan Enterprise Co., Ltd.

Date: 2021/08/05

I. Material and Manufacturer Identification

WALSIN LIHWA CORP. TRADE MARK:

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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 carcinogen. 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.

		2021/8/5	
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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 cycs, 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)	0.150max	7440-44-0
Si (Silicon)	1.00max	7440-21-3
Mn (Manganese)	2.00max	7439-96-5
P (Phosphorous)	0.200max	7723-14-0
S (Sulfur)	0.150min	7704-34-9
Ni (Nickel)	8.00~10.00	7440-02-0
Cr (Chromium)	17.00~19.00	7440-47-3
Mo (Molybdenum)		7439-89-6
Cu (Copper)		7440-50-8
Al (Aluminum)		7429-90-5
N (Nitrogen)		7727-37-9
Ti (Titanium)		7440-32-6
Nb (Niobium)		7440-03-1
V(Vanadium)		7440-62-2
B (Boron)		7440-42-8
Fe (Iron)	Balance	7439-89-6

IV. First Aid Measurcs

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 Measures

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

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VI. Accidental Rele						
None. Product is a m						
VII. Handling and						
		dust should be evaluated and controlled				
as well, and avoid bro	-					
	from acid solution/gas and inco	empatible material.				
VIII. Exposure Con	ntrols / Personal Protection					
		procedures creating dust or fumes - approved				
Protection	respirators should be worn to limit unnecessary inhalation of potentially					
	hazardous dust particles or fu	mes.				
Skin and Eye	kin and Eye Protective clothing, gloves and glasses should be worn as warranted by the					
Protection	manufacturing operation.					
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Ventilation	In manufacturing or handling procedures creating dust or fumes, exhaust systems					
ventuation	should be utilized to exhaust potentially harmful dust particles or fumes.					
IX. Physical and Cl	hamical Properties					
Physical State: Solid						
	or: Metallic Gray/Odorless	Flammability(Solid, Gas): None				
	1375-1450	Auto-ignition Temperature : None				
Melting Point:	8.00	Flash Point: N/A				
Specific Gravity:	8.00	Explosion Limit: N/A				
Boiling Point : N/A	Α.					
Vapor Pressure : N/		Decomposition Temperature: N/A				
Vapor Density : N/A		pH Value: N/A				
Evaporation Rate : N		Partition Coefficient (n-octanol/water,				
Solubility in Water: N/A logkow): N/A						
X. Stability and Re						
Stability: Stable Incompatibility: N/A						
Hazardous decomposition: N/A Hazardous polymerization: N/A XI. Toxicological Information						
		solid metal preparation and article.				
XII. Ecological Infe		solid metal preparation and article.				
		s do not present an ecological hazard.				
XIII. Disposal Con		is do not present an ecological nazara.				
	fumes all should be recycled w	henever possible				
XIV. Transport In		menter of possibility				
In the case of heavy	product exercise care for preven	ntion of load shifting. It is desirable to cover				
In the case of heavy product, exercise care for prevention of load shifting. It is desirable to cover the product with tarpaulin or the like to prevent infiltration of rain water, etc.						
XV. Regulatory In						
No specific informat		The second secon				
XVI. Other Inform						
References:						
	et for Chemical Products" Part 1	"Content and Order of Sections"				
(2)Globally Harmon	ized System of Classification an	d Labeling of Chemicals (GHS) (Rev.4)				
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