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:

304F

Product Namc: 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

11. 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, pecling, 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.

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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)	0.080max	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)	8.00~10.50	7440-02-0
Cr (Chromium)	18.00~20.00	7440-47-3
Mo (Molybdenum)	*	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)		7440-42-8
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 Measures

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

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VI. Accidental Rela				
None. Product is a n				
VII. Handling and				
Handling: High con	centration of airborne particle or	dust should be evaluated and controlled		
	reathing metal fumes.			
	from acid solution/gas and inco	mpatible material.		
/III. Exposure Controls / Personal Protection				
Respiratory Protection	In manufacturing or handling procedures creating dust or fumes — approved respirators should be worn to limit unnecessary inhalation of potentially hazardous dust particles or fumes.			
Skin and Eye Protection	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	hemical Properties			
Physical State: Soli	d			
Appearance and Ode	or: Metallic Gray/Odorless	Flammability(Solid, Gas): None		
Melting Point:	1375-1450	Auto-ignition Temperature: None		
Specific Gravity:	8.00	Flash Point: N/A		
Boiling Point: N/A		Explosion Limit: N/A		
Vapor Pressure : N	'A	Decomposition Temperature: N/A		
Vapor Density : N/A	A	pH Value : N/A		
Evaporation Rate: N/A		Partition Coefficient (n-octanol/water,		
Solubility in Water: N/A		logkow): N/A		
X. Stability and Reactivity				
Stability: Stable Incompatibility: N/A				
Hazardous decomposition : N/A Hazardous polymerization : N/A				
XI. Toxicological Information				
None, no information is available for the product as solid metal preparation and article.				
XII. Ecological Information				
None, steel products in wire, rod, bar and other forms do not present an ecological hazard.				
XIII. Disposal Considerations				
Steel Scrap, dusts or fumes all should be recycled whenever possible.				
XIV. Transport Information				
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 Information				
No specific information				
XVI. Other Information				
References:				
(1)"Safety Data Sheet for Chemical Products" Part 1 "Content and Order of Sections" (2)Globally Harmonized System of Classification and Labeling of Chemicals (GHS) (Rev.4)				
(2)Cloudily Harmon	men system of Classification and	a raneinis of Chemicals (Cha) (VCA.4)		

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