## **MATERIAL SAFETY DATA SHEET**

## Abbreviations used on this Material Safety Data Sheet:

N/av. = Not available, N/ap. = Not applicable, ppm = parts per million, ACGIH: American Conference of Governmental Hygeinists

TWA = Time weighted average

## WHMIS CLASS: NOT A CONTROLLED PRODUCT

		SECT	ION 1 - I	PROD	UCT IDENTI	FICATIO	N AND US	E				
PRODUCT IDENTIFIER:	STEEL	WIRE BRIC	GHT									
PRODUCT USE:	Various applications.											
SUPPLIER:	Tree Is	Tree Island Industries Ltd.										
	P.O. Box	50, New Wes	tminster, BC	, Canada	, V3L 4Y1							
FELEPHONE:	(604) 524	4-3744, Busine	ess hours.	+1 (604)	524-3756, 24-hour	Emergency	Number					
		S	SECTION	N 2 - H	IAZARDOUS	INGRE	DIENTS					
HAZARDOUS INGREDIENTS			CONCEN'		CAS NUMBER	LETHAL DOSE (50%) (SPECIES, ROUTE)		LETHAL CONCENTRATION (50%) (SPECIES, ROUTE)				
ron			95 ו	min	7439-89-6	98600 mg/kg (oral/rat)		N/av.				
Manganese			.2 t	o 1	7439-96-5	>9000 mg/kg (oral/rat)		N/av.				
Chromium			Up to	0.1	7440-47-3	N/av.		N/av.				
Nickel	ckel		Up to	0.1	7440-02-0	>9000 mg/kg (oral/rat)		2550 mg/m3 (rat/4hr)				
			SE	CTIOI	N 3 - PHYSIC	CAL DAT	A	<u> </u>				
PHYSICAL STATE: S	Solid ()do							ODOUR THRESHOLD :	N/ap.			
	/a.	VAPOLID	N/ap.	EVAPOR RATE:	N/ap.	BOILING POIN	3000°C	MELTING POINT:	1300°C			
<sup>H:</sup> N/ap.		SPECIFIC GRAVITY:	7.85	COEFFIC	IENT OF WATER/OIL JTION:	Not solub	le in water.					
		S	<b>ECTION</b>	4 – F	IRE AND EX	PLOSIO	N DATA					
FLAMMABILITY:		Massive m	etal is not fla	ımmable.								
YES N	ОХ											
MEANS OF EXTINCTION:	No fire or	explosion haza	rd – not com	bustible								
SPECIAL PROCEDURES:	N/a											
FLASHPOINT:	N/ap.			AMMABILITY I	IMIT: N/av.		LOWER FLAMMABILITY	Y LIMIT: N/av				
AUTOIGNITION	•		(% BY VOLI	UME) JS COMBUST	ION		(% BY VOLUME)	14/44	•			
EMPERATURE:	PRODUCTS: N/A PRODUCTS:											
SENSITIVITY TO MPACT:	Not sensitive. Stable material.  SENSITIVITY TO STATIC DISCHARGE:  Massive metal not sensitive.											
			SEC	TION	5 - REACTI	VITY DA	TA					
CHEMICAL STABILITY:		Manaka		L.I.								
YES X N	NO Massive metal is stable.											
NCOMPATIBILITY:		A i al										
YES X N	0	AVOID CO	oniaci with Sti	rong acid	is which will react	with the proc	uct to form flamn	nable hydrogen gas.				
REACTIVITY:												
Hazarous polyme												
		TC-										
HAZARDOUS DECOMPO:	SITION PRODUC	.13.										

PRODUCT IDENTIFIER: STEEL WIRI	E BRIGHT					
	SECTI	ON 6 -TOXICO	OLOGICAL PROP	ERTIES		
ROUTES OF ENTRY:						
Inhalation: Only when heated.		Skin: Minor	Eyes: Minor		Ingestion: minor	
EFFECTS OF ACUTE EXPOSURE TO PRODUCT:						
the presence of a coatings only. In				on is unlikely.	Eye contact causes irritation due to	
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:						
Prolonged or repeated contact with Nickel as a chemical which 'may re Suspected as a Human Carcinoger	asonably be	anticipated to be a car	cinogen'. The ACGIH lists N			
EXPOSURE LIMITS: ACGIH TLV-TWA IRRITANCY:			SENSITIZATION:		CARCINOGENICITY:	
Iron fume : 5 mg/m <sup>3</sup> As above.			Not reported.		Nickel component is possible	
Manganese fume : 1 mg/m <sup>3</sup>					human carcinogen.	
Chromium: 0.5 mg/m <sup>3</sup>						
Nickel: 1.5 mg/m³ (inhalable fraction)						
TERATOGENICITY: REPRODUC		: TOXICITY:	MUTAGENICITY:		SYNERGISTIC PRODUCTS:	
Not reported. Not reporte		ed.	Not reported.		Not reported.	
	SE	CTION 7 - PRE	VENTIVE MEASU	IRES		
GLOVES:		RESPIRATOR:		EYE:		
General protective gloves.		Respiratory protection normally not required. If fumes or dust are generated, use approved respiratory protection.		Safety glasses		
FOOTWEAR:		CLOTHING:		OTHER:		
Safety boots.		Coveralls or other work clothes.		Eye wash station must be available.		
ENGINEERING CONTROLS:						
A combination of general dilution ve	entilation and	local exhaust should I	be used when fumes or dust	ts are genera	ted.	
LEAK AND SPILL PROCEDURE:						
N/ap.						
WASTE DISPOSAL:						
Follow all national, provincial, and I	ocal regulation	ns.				
HANDLING PROCEDURES AND EQUIPMENT:						
Use adequate ventilation and person	onal protective	e equipment.				
STORAGE REQUIREMENTS:						
Store away from incompatible mate	erials. See Se	ction 5 of this MSDS.				
SPECIAL SHIPPING INFORMATION:  Not regulated as dangerous goods.						
Tvot regulated as dangerous goods.		FCTION 8 - FII	RST AID MEASUR	FS		
EYE CONTACT: Immediately flush	eyes with wa	ter for 15 minutes whi	ile retracting eyelids. Seek n	nedical attent	ion.	
SKIN CONTACT: Maintain good pe	ersonal hygie	ne, wash with soap an	d water. Seek medical atten	tion if necess	sary.	
INHALATION: Remove victim to fre	esh air. Seek	immediate medical at	tention.			
INGESTION: Not generally expect	ed. Seek me	dical attention if neces	sary.			
	SECTI	ON 9 – PREPA	ARATION DATE O	F MSDS		
PREPARED BY:		PHONE NUMBER:		DATE:		
Sofya Solodkin, P.Eng, Tree Island Industries		(604)-524-3744		Original Preparation Date: Oct.31/2002, Reviewed and re-issued March 29, 2012		
Reviewed by: Kel-Ex Agencies, A Division of ICC. The Compliance Center						