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

		SECTIO	N 1 - PRO	DUCT IDEN	TIFICATIO	N AND US	Ε			
PRODUCT IDENTIFIER:	STEEL	. WIRE NAILS	, BRIGHT							
PRODUCT USE:	Various applications.									
SUPPLIER:	Tree Is	land Industri	es Ltd.							
	P.O. Box	50, New Westm	inster, BC, Cana	da, V3L 4Y1						
TELEPHONE:	(604) 52	4-3744, Business	hours. +1 (60-	4) 524-3756, 24-h	our Emergency N	lumber				
	_	SE	CTION 2 -	HAZARDOL	JS INGREE	DIENTS				
HAZA	RDOUS INGRED	IENTS	CONCENTRATION %	CAS NUMBER	LETHAL DOSE (50%) (SPECIES, ROUTE)		LETHAL CONCENTRATION (50%) (SPECIES, ROUTE)			
Iron			95 min	7439-89-6	98600 mg/kg (oral/rat)		N/av.			
Manganese			.2 to 1	7439-96-5	>9000 mg/kg (oral/rat)		N/av.			
Chromium			Up to 0.1	7440-47-3	N	N/av.		v.		
Nickel			Up to 0.1	7440-02-0	>9000 mg	>9000 mg/kg (oral/rat)		2550 mg/m3 (rat/4hr)		
			SECTIO	ON 3 - PHYS	SICAL DAT	A				
PHYSICAL STATE: S	ICAL STATE: Solid ODOUR , APPEARANCE: Od		dourless.				ODOUR THRESHOLD :	N/ap.		
VAPOUR N	/a.	VAPOLID	ap. EVAP	ORATION N/ap.	BOILING POINT	^{T:} 3000°C	MELTING POINT:	1300° C		
^{pH:} N/ap.	SPECIFIC GRAVITY: 7.85 COEFFICIENT OF WATE DISTRIBUTION:				Not solubl	e in water.				
		SE	CTION 4 –	FIRE AND E	EXPLOSIO	N DATA				
FLAMMABILITY:		Massive meta	al is not flammab	le.						
YES N	ОХ									
MEANS OF EXTINCTION:	No fire or	explosion hazard	not combustibl	е						
SPECIAL PROCEDURES:	N/a									
FLASHPOINT:	N/ap.		UPPER FLAMMABILIT	TY LIMIT: N/av.		LOWER FLAMMABILIT (% BY VOLUME)	Y LIMIT: N/av	·.		
AUTOIGNITION	N/a		HAZARDOUS COMBL	JSTION N/a		(/8 BT VOLONIL)				
TEMPERATURE: SENSITIVITY TO		sitiva Ctable meta	PHODUCIS:				a a na iti ya			
IMPACT:	Not sensitive. Stable material. Massive metal not sensitive.									
			SECTIO	N 5 - REAC	FIVITY DAT	ΓΑ				
CHEMICAL STABILITY : YES X N	NO Massive metal is stable.									
INCOMPATIBILITY:		A		عدد النب عامنات عامنا		4 6 61				
YES X N	ES X NO Avoid contact with strong acids which will react with the product to form flammable hydrogen gas.									
REACTIVITY:										
Hazaraya nalyma		Il not occur.								
	· · · · · · · · · · · · · · · · · · ·	TC:								
HAZARDOUS DECOMPOS None	SITION PRODUC									

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 ³ As above.			Not reported.		Nickel component is possible	
Manganese fume : 1 mg/m ³					human carcinogen.	
Chromium: 0.5 mg/m ³						
Nickel: 1.5 mg/m³ (inhalable fraction)						
TERATOGENICITY: REPRODUCT		: TOXICITY:	MUTAGENICITY:		SYNERGISTIC PRODUCTS:	
Not reported. Not reporte					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						