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

		SEC	TION	1 - PROD	UC	T IDENTIF	FICATION A	ND USE				
PRODUCT IDENTIFIER:	STEEL	_ WIRE NA	AILS, B	RIGHT (Ph	osp	hated or Vir	ıyl)					
PRODUCT USE:	Various applications.											
SUPPLIER:	Tree Island Industries Ltd.											
	P.O. Bo	x 50, New W	estminste	er, BC, Canada	a, V3L	4Y1						
FELEPHONE:	(604) 524-3744, Business hours. +1 (604) 524-3756, 24-hour Emergency Number											
			SEC	ΓΙΟΝ 2 - H	HAZ.	ARDOUS	INGREDIEN	TS				
HA	ZARDOUS INGF	REDIENTS		CONCENTRATION %	N	CAS NUMBER	LETHAL DOS (SPECIES, F	. ,		ICENTRATION (50%) DIES, ROUTE)		
Iron				~95		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/av.		N/av.			
Nickel				Up to 0.1		7440-02-0	>9000 mg/kg (oral/rat)		2550 mg/m3 (rat/4hr)			
Zinc phosphate (Phosphated nails only)			Appr. 0.03-0	.1	7779-90-0 >5000 mg/kg (oral/rat)			N/av.				
During burning zinc oxide is generated			unknown		1314-13-2	2950 mg/kg (oral/rat)		2500 mg/m ³ (mouse/4hr)				
Vinyl resins (vinyl coated nails only)			Appr. 0.03-0	.1	9005-09-8	N/av		N/av				
, , ,						- DHVSIC	AL DATA					
HYSICAL STATE:	SECTION 3 - PHYSICAL DATA ODOUR THRESHOLD:											
Solid APPEARANCE: Odou			Odour	riess.					N/ap.			
APOUR N PRESSURE:	/a.	VAPOUR DENSITY:	N/ap.	RATE:	RATION	N/ap.	BOILING POINT: 30	000°C	ELTING POINT:	1300°C		
N/ap.		SPECIFIC GRAVITY:	7.85	COEFFIC		WATER/OIL	Not soluble in wa	iter.				
- FLAMMABILITY:				TON 4 - F		AND EXF	PLOSION DA	TA		-		
	ОХ											
MEANS OF EXTINCTION:	No fire or	explosion ha	zard – no	ot combustible								
PROCEDURES:	N/a											
ELASHPOINT: U/ap			PPER FLAMMABILITY	LIMIT:	N/a	N/a. LOWER FLAMMABILIT		Y LIMIT: N/a.				
ALITOIGNITION			6 BY VOLUME) AZARDOUS COMBUS	TION		(% BY VOLUME)			17/4.			
TEMPERATURE: N/A PRODUCTS:					N/a							
ENSITIVITY TO MPACT:	Not sens	sitive. Stable	material.	•		SENSITIVITY TO DISCHARGE:	Massive n	netal not sens	sitive.			
				SECTION	l 5 -	REACTIV	ITY DATA					
CHEMICAL STABILITY :												
YES X N	0	Massi	ve metal	is stable.								
NCOMPATIBILITY :												
/ES X N	0	Avoid	contact v	with strong acid	ds wh	ich will react w	rith the product to for	orm flammab	le hydrogen ga	S.		
REACTIVITY:												
lazarous polyme	erization w	ill not occur.										
HAZARDOUS DECOMPO	SITION PRODUC	CTS:										
# IE # 11 15 0 0 0 5 E 0 0 1 1 1 0 1												
None												

PRODUCT IDENTIFIER: STEEL WIRE NAILS, B	RIGHT				
SECTION	ON 6 -TOXICOLOGICA	AL PROP	ERTIES		
ROUTES OF ENTRY:					
Inhalation: Only when heated.	Skin: Minor	Eyes: Minor		Ingestion: minor	
EFFECTS OF ACUTE EXPOSURE TO PRODUCT:					
Metal fume formed from welding or heating of m the presence of a "foreign object" only. Ingestion is		n. Skin irritatio	on is unlikely. Ey	e contact causes irritation due to	
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:					
Prolonged or repeated contact with skin can cause Nickel as a chemical which 'may reasonably be a Suspected as a Human Carcinogen. Chromium r	anticipated to be a carcinogen'. The	ACGIH lists N	lickel with carcin		
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)					
Zinc oxide dust(Phosphated nails only): 2 mg/m ³	REPRODUCTIVE TOXICITY:			OVALED CIOTIO PROPILIOTO	
	Not reported.	MUTAGENICITY:		SYNERGISTIC PRODUCTS: Not reported.	
Not reported.	Not reported.	Not reported.		Not reported.	
SEC	CTION 7 - PREVENTIV	E MEASU	RES		
GLOVES:	RESPIRATOR:		EYE:		
General protective gloves.	Respiratory protection normally no fumes or dust are generated, use 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 ventilation and	local exhaust should be used wher	tumes or dust	s are generated	1.	
LEAK AND SPILL PROCEDURE:					
N/ap. WASTE DISPOSAL:					
Follow all national, provincial, and local regulation	ne				
HANDLING PROCEDURES AND EQUIPMENT:	15.				
Use adequate ventilation and personal protective	equipment.				
STORAGE REQUIREMENTS:					
Store away from incompatible materials. See See Special Shipping Information:	ction 5 of this MSDS.				
Not regulated as dangerous goods.					
	ECTION 8 - FIRST AID	MEASIIR	FQ		
3.	LOTION 0 - TINGT AID	WILAGOII			
EYE CONTACT: Immediately flush eyes with wa	ter for 15 minutes while retracting e	eyelids. Seek n	nedical attentior	1.	
SKIN CONTACT: Maintain good personal hygien	e, wash with soap and water. Seek	medical atten	tion if necessar	٧.	
INHALATION: Remove victim to fresh air. Seek i	·			•	
INGESTION: Not generally expected. Seek med					
Not generally expected. Gook med	ical attention in necessary.				
SECTION	ON 9 – PREPARATION	DATE O	F MSDS		
PREPARED BY:	PHONE NUMBER:		DATE:		
Sofya Solodkin, P.Eng, Tree Island Industries	(604)-524-3744		Original Preparataion Date: December 18, 2001,		
Reviewed by: Kel-Ex Agencies, A Division of ICC. The Compliance Center			Reviewed and re-issued March 29, 2012		