MATERIAL SAFETY DATA SHEET

Abbreviations used on this Material Safety Data Sheet:

N/av. = Not available, N/ap. = Not applicable, ppm = parts per million, TWA = Time weighted average.

WHMIS CLASS: NOT A CONTROLLED PRODUCT

		SEC	HON	1 - PR	ODUC	T IDENTII	FICATIO	N AND US)			
PRODUCT IDENTIFIER:	STEEL WIRE NAILS, BRIGHT (Phosphated or vinyl)											
PRODUCT USE:	Various applications.											
SUPPLIER:	Tree Island Industries Ltd.											
	P.O. Box	50, New We	estminste	er, BC, Car	nada, V3L	4Y1						
FELEPHONE:	(604) 524-3744, Business hours. (604) 524-3756, 24-hour Emergency Number											
	-		SECT	TION 2	- HAZ	ARDOUS	INGRED	DIENTS				
НА	ZARDOUS INGRI	EDIENTS		%		CAS NUMBER		THAL DOSE (50%) PECIES, ROUTE)	LETH	AL CONCENTRATION (50%) (SPECIES, ROUTE)		
Iron				95		7439-89-6		N/av.		N/av.		
Manganese				.2 to 1		7439-96-5	N/av.		N/av.			
Chromium				Up to 0.1		7440-47-3	N/av.			N/av.		
Nickel				Up to 0.1		7440-02-0	N/av.		N/av.			
Zinc phosphate (Phosphated nails only)				Appr. 0.0	03-0.1							
During burning zinc oxide is generated												
Vinyl resins (viny	l coated na	ils only)		Appr. 0.0	03-0.1	9005-09-8		N/av		N/av		
				SECT	ION 3	- PHYSIC	AL DAT	4				
PHYSICAL STATE: S	olid	ODOUR, APPEARANCE: Odourless.						ODOUR THRESH	OLD: N/ap.			
APOUR N	/a.	VAPOUR	N/ap.	EV	/APORATION	N/ap.	BOILING POINT	3000 C	MELTING POINT:	<u> </u>		
PRESSURE:		DENSITY:	тиар.	RA	ATE:	Wap.		0000 0		1000 0		
N/ap.		SPECIFIC GRAVITY:	7.85		DEFFICIENT OF STRIBUTION:	WATER/OIL	Not soluble	e in water.				
-		'	SECT	TION 4	- FIRE	AND EXF	PLOSION	I DATA	<u>-</u>			
FLAMMABILITY:				not flamma		7.112 =7.1						
YES N	ОХ	Massive	metai is	not namin	abie.							
MEANS OF EXTINCTION:	No fire or	explosion ha	zard – no	ot combust	ible							
SPECIAL	N/a											
PROCEDURES: LASHPOINT:			UF	PPER FLAMMAB	BILITY LIMIT:	N1/		LOWER FLAMMABILIT	TY LIMIT:			
N/ap. (%			% BY VOLUME)		N/a. (% BY VOLUME)		N/a.					
N/a				AZARDOUS CON RODUCTS:	MBUSTION	N/a	N/a					
SENSITIVITY TO Not sensitive. Stable material. SENSITIVITY TO STATIC DISCHARGE: Massive metal not sensitive.												
	-			SECT!	ON F	REACTIV		- _^				
CHEMICAL STABILITY:				JEUIN	ON 3 -	REACTIV	TIT DAI					
YES X N	0	Massi	ve metal	is stable.								
NCOMPATIBILITY:		A ! -!	00ntt	with others	oolds whi	ن عمم النبي طوا	ith the	at to forms flagge	mahla hudus a -			
YES X N	S X NO Avoid contact with strong acids which will react with the product to form flammable hydrogen gas.											
REACTIVITY:												
Hazarous nolyme	erization wil	I not occur.										
luzurous porymit												
HAZARDOUS DECOMPOS	SITION PRODUC	TS:										

PRODUCT IDENTIFIER: STEEL WIRE NAILS, BRIGHT											
SECTION 6 -TOXICOLOGICAL PROPERTIES											
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 metal may cause respiratory irritation. Skin irritation is unlikely. Eye contact causes irritation due to the presence of a "foreign object" only. Ingestion is unlikely to produce toxic effects.											
EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:	-1.:		-td-h IADO : O OD	(and a series area. The NTD liefs						
Prolonged or repeated contact with a Nickel as a chemical which 'may rea Suspected as a Human Carcinogen.	isonably be a	nticipated to be a carcin	ogen'. The ACGIH lists Ni								
EXPOSURE LIMITS: mg/m3	IRRITANCY:		SENSITIZATION:		CARCINOGENICITY:						
ACGIH TLV	As above.		Not reported.		Nickel component is possible						
- iron fume : 5					human carcinogen.						
- manganese fume : 1											
- Chromium: 0.5											
- nickel: 1											
 Zinc oxide dust(Phosphated 											
nails only): 5											
TERATOGENICITY:	REPRODUCTIVE	TOXICITY:	MUTAGENICITY:		SYNERGISTIC PRODUCTS:						
Not reported.	Not reporte	d.	Not reported.		Not reported.						
	=										
SECTION 7 - PREVENTIVE MEASURES											
GLOVES:		RESPIRATOR:		EYE:							
General protective gloves.		fumes or dust are generatory protection.	normally not required. If erated, use approved	Safety glas	ses						
FOOTWEAR:		CLOTHING:		OTHER:							
Safety boots.		Coveralls or other work	colothes.	Eye wash station must be available.							
ENGINEERING CONTROLS:											
A combination of general dilution ve	ntilation and	ocal exhaust should be	used when fumes or dusts	are generat	ed.						
LEAK AND SPILL PROCEDURE:											
N/ap.											
WASTE DISPOSAL:											
Follow all national, provincial, and local regulations.											
HANDLING PROCEDURES AND EQUIPMENT: Use adequate ventilation and personal protective equipment.											
STORAGE REQUIREMENTS:	p. 0100110										
Store away from incompatible mater	ials. See Sec	ction 5 of this MSDS.									
SPECIAL SHIPPING INFORMATION: Not dangerous goods.											
SECTION 8 - FIRST AID MEASURES											
EYE CONTACT: Immediately flush	eyes with wat	ter for 15 minutes while	retracting eyelids. Seek me	edical attenti	on.						
EYE CONTACT: Immediately flush eyes with water for 15 minutes while retracting eyelids. Seek medical attention. SKIN CONTACT: Maintain good personal hygiene, wash with soap and water. Seek medical attention if necessary.											
INHALATION: Remove victim to fresh air. Seek immediate medical attention.											
INGESTION: Not generally expected. Seek medical attention if necessary.											
SECTION 9 - PREPARATION DATE OF MSDS											
PREPARED BY:		PHONE NUMBER:		DATE:							
Sofya Solodkin, P.Eng, Tree Island	Industries	(604)-524-3744		December 18, 2001, reapproved Jan.09/2007							