



HAMILTON SPECIALTY BAR CORPORATION

HSB

MATERIAL SAFETY DATA SHEET

Flammability - 0

Reactivity - 0

Health - 1

SECTION I - MATERIAL IDENTIFICATION AND USE

WHMIS Classification **D2A**

Material Name	Alloy Steel		Product Identification Number	Not Applicable	
Manufacturer's Name	Hamilton Specialty Bar Corporation		Suppliers Name	Hamilton Specialty Bar Corporation	
Street Address	P.O. Box 2943, 319 Sherman Ave. N.,		Street Address	P.O. Box 2943, 319 Sherman Ave. N.	
City	Hamilton	Province	Ontario	City	Hamilton
		Province	Ontario		
Postal Code	L8N 3R5	Emergency Telephone No.	(905) 548-5350		
Chemical Name	Not Applicable		Chemical Family	Alloyed Metal	
Molecular Weight	Not Applicable		Trade Names and Synonyms	None	
			Chemical Formula	Not Applicable	
			Material Use	Intermediate Steel Product	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

Hazardous Ingredients	Approximate Concentration %	C.A.S. N.O. U.N. Numbers	ACGIH TLV-TWA "Exposure Limits"	LD ₅₀ /LC ₅₀ Species & Route
Iron	< 99.50	7439-89-6	Iron oxide fume 5mg/m ³	Not available
Manganese	2.20	7439-96-5	Dust 5 mg/m ³ ; Fume 1mg/m ³	Rat, oral 9g/kg
Nickel	2.10	7440-02-0	Elemental, inhalable 1mg/m ³	Not available
Chromium	1.30	7440-47-3	0.5 mg/m ³	Not available
Silicon	1.00	7440-21-3	10 mg/m ³	Rat, oral 3160mg/kg
Copper	0.60	7440-50-8	Fume 0.2 mg/m ³ Dust 1.0 mg/m ³	Not available
Vanadium	0.15	7440-62-2	Respirable dust & fume 0.05mg/m ³	Not available
Arsenic	0.01	7440-38-2	0.01 mg/m ³	Not available

SECTION III - PHYSICAL DATA FOR MATERIAL

Physical State	Solid	Odour & Appearance	Steel gray;no odour	Odour Threshold (p.p.m)	Not applicable	Specific gravity	Not available
Vapour Pressure (mm)	Not Applicable	Vapour Density (Air=1)	Not Applicable	Evaporation Rate	Not Applicable	PH	Not Applicable
Solubility in Water (20°C)	Not Soluble	Boiling pt. (°C)	Not Available	Freezing pt. (°C)	Not Available	%Volatile (by volume)	Not Applicable
						Coefficient of water/oil distribution	Not Applicable

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability	No	If yes, under which conditions	
Means of Extinction	Does not burn. Use extinguisher appropriate for material which is burning		
Special Procedures	None		
Flashpoint (°C) & Method	Not Applicable	Upper explosion limit (% by volume)	Not Applicable
		Lower explosion limit (% by volume)	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable	Hazardous Combustion Products Metal Oxide Fumes	
Explosion Data- Sensitivity to Chemical Impact	Not Applicable	Rate of Burning	Not Applicable
		Explosive Power	Not Applicable
		Sensitivity to Static Discharge	
		Not Applicable	

SECTION V - REACTIVITY DATA

Chemical Stability	Yes	If no under what conditions?
Incompatibility to other substances	Yes	If so which ones? Strong mineral acids
Reactivity and under what conditions	Generally not reactive but may cause vigorous reactions with strong acids, oxidizing agents and some halogens	
Hazardous Decomposition Products	Metal fumes and/or oxides may be produced during welding, torch cutting, grinding, machining or melting	



HAMILTON SPECIALTY BAR (2007) INC.

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Material Name / Identifier Alloy Steel						
SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT						
Route of entry	Skin Contact	Skin Absorption	Eye Contact	Inhalation Acute	Inhalation Chronic	Ingestion
			X	X	X	
Effects of Acute Exposure to Product This product is only hazardous during processing which produces dusts, mists, or fumes Inhalation may cause respiratory irritation or disease.						
Effects of Chronic Exposure to Product Repeated Inhalation of dusts or fumes for many months or years may cause respiratory diseases.						
LD ₅₀ of product (Specify Species and Route) Not Applicable		Irritancy of Product Fumes may irritate eyes, nose & throat		Exposure Limits of product Not Applicable		
LD50 of product (Specify Species) Not Applicable		Sensitization of Product Unlikely		Synergistic materials None Known		
Carcinogenicity	Reproductive effects	Teratogenicity	Mutagenicity			
X				Arsenic, chromium and nickel compounds are carcinogens listed by IARC		
SECTION VII - PREVENTIVE MEASURES						
Personal Protective Equipment Personal protective equipment used will depend on the nature of the work process						
Gloves (Specify)	Respiratory (Specify)	Eye (Specify)	Footwear (Specify)			
If needed	NIOSH approved fume respirator if needed	As required for welding/grinding	Safety Shoes			
Clothing (Specify)	Other (Specify)					
Aprons, face shield	Wear as needed to prevent breathing dusts and fumes.					
Engineering Controls (e.g. ventilation, enclosed process, specify) Torch cutting, welding & grinding should be performed with sufficient ventilation						
Leak and Spill Procedure Not Applicable						
Water Disposal Consult local environmental authorities						
Handling Procedures and Equipment None						
Storage Requirements No special requirements						
Special Shipping Information None						
SECTION VII - FIRST AID MEASURES						
Skin Wash thoroughly with water. Consult physician if irritation persists						
Eye Flush eyes with large amounts of lukewarm gently running water for 20 minutes. Consult physician if irritation persists.						
Inhalation Move person to fresh air. Give artificial respiration if breathing has stopped. Seek medical attention if necessary.						
Ingestion Not Applicable						
General Advice Consult physician for all serious overexposures.						
SECTION IX -PREPARATION DATE OF M.S.D.S						
Additional Information/Comments This information is given in good faith and is taken from sources believed reliable as of the date stated. HSB Corporation accepts no liability for loss or damage incurred as a result of use or reliance upon the information given not for any inaccuracy or incompleteness in MSDS.						
Species Used RTECS, Doc of TLVS, HSB Corp. Data, Dangerous Properties of Industrial Materials Seventeenth Edition						
Prepared by	Phone Number	Revision Date				
M Cheshire	(905) 312-8650	30-Jun-12				