



# HAMILTON SPECIALTY BAR (2007), INC.

HSB

## MATERIAL SAFETY DATA SHEET

Flammability - 0

Reactivity - 0

Health - 1

SECTION I - MATERIAL IDENTIFICATION AND USE				WHMIS Classification D2A			
Material Name		Carbon and Microalloyed 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	
Postal Code		L8N 3R5		Emergency Telephone No.		(905) 312-8650	
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 <sub>50</sub> /LC <sub>50</sub> Species & Route			
Iron	< 99.50	7439-89-6	Iron oxide fume 5mg/m <sup>3</sup>	Not available			
Manganese	1.80	7439-96-5	Fume 1mg/m <sup>3</sup> Dust 5 mg/m <sup>3</sup> (ceiling)	Rat, oral 9g/kg			
Nickel	0.50	7440-02-0	1 mg/m <sup>3</sup>	Not available			
Chromium	0.60	7440-47-3	0.5 mg/m <sup>3</sup>	Not available			
Copper	0.60	7440-50-8	Fume 0.2 mg/m <sup>3</sup> Dust 1.0 mg/m <sup>3</sup>	Not available			
Vanadium	0.12	7440-62-2	Pentoxide-fume 0.05mg/m <sup>3</sup>	Not available			
Arsenic	0.01	7440-38-2	0.01 mg/m <sup>3</sup>	Not available			
SECTION III - PHYSICAL DATA FOR MATERIAL							
Physical State		Solid		Odour & Appearance		Steel gray;no odour	
Vapour Pressure (mm)		Not Applicable		Odour Threshold (p.p.m)		Not applicable	
Vapour Density (Air=1)		Not Applicable		Specific gravity		Not available	
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	
Auto Ignition Temperature (°C)		Not Applicable		Lower explosion limit (% by volume)		Not Applicable	
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 can produce flammable and explosive hydrogen gas with strong acids, and some halogens							
Hazardous Decomposition Products							
Metal fumes and/or oxides may be produced during welding, torch cutting, grinding, machining or melting							



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Material Name / Identifier <b>Carbon and Microalloyed Steel</b>						
<b>SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT</b>						
Route of entry	Skin Contact	Skin Absorption	Eye Contact	Inhalation Acute	Inhalation Chronic	Ingestion
			X	X	X	
Effects of Acute Exposure to Product <b>This product is only hazardous during processing which produces dusts, mists, or fumes Inhalation may cause respiratory irritation or disease.</b>						
Effects of Chronic Exposure to Product <b>Repeated Inhalation of dusts or fumes for many months or years may cause respiratory diseases.</b>						
LD <sub>50</sub> of product (Specify Species and Route) <b>Not Applicable</b>			Irritancy of Product Fumes may irritate eyes, nose & throat		Exposure Limits of product <b>N/A</b>	
LD50 of product (Specify Species) <b>Not Applicable</b>			Sensitization of Product <b>Not a sensitizer</b>		Synergistic materials <b>None Known</b>	
Carcinogenicity	Reproductive effects	Teratogenicity	Mutagenicity			
X			<b>Arsenic, chromium and nickel compounds are carcinogens listed by IARC</b>			
<b>SECTION VII - PREVENTIVE MEASURES</b>						
Personal Protective Equipment <b>Personal protective equipment used will depend on the nature of the work process</b>						
Gloves (Specify)	Respiratory (Specify)	Eye (Specify)	Footwear (Specify)			
<b>If needed</b>	<b>NIOSH approved fume respirator if needed</b>	<b>As required for welding/grinding</b>		<b>Safety Shoes</b>		
Clothing (Specify)	Other (Specify)					
<b>Aprons, face shield</b>	<b>Wear as needed to prevent breathing dusts and fumes.</b>					
Engineering Controls (e.g. ventilation, enclosed process, specify) <b>Torch cutting, welding &amp; grinding should be performed with sufficient ventilation</b>						
Leak and Spill Procedure <b>Not Applicable</b>						
Water Disposal	<b>Consult local environmental authorities</b>					
Handling Procedures and Equipment	<b>None</b>					
Storage Requirements	<b>No special requirements</b>					
Special Shipping Information	<b>None</b>					
<b>SECTION VII - FIRST AID MEASURES</b>						
Skin <b>Wash thoroughly with water. Consult physician if irritation persists</b>						
Eye <b>Flush eyes with large amounts of lukewarm gently running water for 20 minutes. Consult physician if irritation persists.</b>						
Inhalation <b>Move person to fresh air. Give artificial respiration if breathing has stopped. Seek medical attention if necessary.</b>						
Ingestion <b>Not Applicable</b>						
General Advice <b>Consult physician for all serious overexposures.</b>						
<b>SECTION IX - PREPARATION DATE OF M.S.D.S</b>						
Additional Information/Comments <b>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.</b>						
Species Used <b>RTECS, Doc of TLVS, HSB Corp. Data, Dangerous Properties of Industrial Materials Seventh Edition</b>						
Prepared by	Phone Number	Revision Date				
<b>M. Cheshire</b>	<b>(905) 312-8650 ext.5023</b>	<b>4-Jun-12</b>				