

Material Safety Data Sheet—Carbon Steel

1.0		Identification of Product and Company						
1.1	Product	oduct : Mild Steel, Carbon and Alloy Steel						
1.2	Supplier : 360 Walt		Stainless Limited Leach Place Iton Summit ston PR5 8AS					
1.3	Emergency Contact		: +44 (0) 1772 337555 : info@bsstainless.co.uk					
1.5	Date Upd	ated March 2	20, 2015					
2.0								
 Excessive inhalation of metallic fumes and dust may result in irritation of eyes, nose and throat. High concentrations of fumes and dust of iron-oxide, manganese, copper, 2.1 Emergency Overview : zinc and lead may result in metal fume fever. Typical symptoms last from 12 to 48 hours and consist of a metallic taste in the mouth, dryness and irritation of the throat, chills and fever. 								
3.0	0 Composition							
		Elements	Weight %	Elements	Weight %			
		Aluminium	<0.01-0.50	Lead	<0.15-0.35			
		Bismuth	<0.20-0.50	Manganese	<0.04-0.70			
		Boron	<0.01-1.00	Molybdenum	<0.15-1.10			
		Carbon	<0.10-1.50	Nickel	<0.10-10.00			
		Chromium	<0.40-1.00	Phosphorous	<0.04-1.12			
		Columbium	<0.15-0.35	Silicon	<0.15-2.00			
		Copper	<0.30-1.90	Sulphur	<0.05-0.35			
		Iron	<86.50—99.50	Vanadium	<0.01-0.15			
	4.0 First Aid Measures							
4.1	Inhalatior	n : If inhale	ed, remove to fresh a	ir; if condition continues	, consult a physician	•		
4.2	4.2 Skin or Eye Contact : Remove particles by washing thoroughly with soap and water. Seek medical attention if condition persists.							
4.3	4.3 Serious Skin Contact : Not Available							
4.4	4.4 Ingestion : If significant amounts of metal are ingested, consult a physician.							





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5.0		Fire Fighting Procedures						
5.1	Extinguishing Media	This material is not combustible in solid form. Use media that is appropriate for the surrounding fire. For fires involving fine dust or filings, do not use : water, CO ² or foam directly on the burning metal. Use dry sand, graphite powder, Lith-X powder, dry chemical or other media appropriate for a class D fire.						
5.2	Fire Fighting Procedures	Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus.						
6.0	Accidental Release Measures							
	Not Applicable							
7.0		Handling and Storage						
7.1	Handling	Do not breathe dust or fumes from processing. Avoid contact with dust. Wear protective clothing and equipment as described in Section 8. Process only with adequate ventilation. Keep containers closed when not in use. Do not eat, drink or smoke in the work area.						
7.2	Storage	: Store in a cool, well ventilated location away from incompatible materials.						
8.0	Exposure Controls/Personal Protection							
8.1	Engineering Controls	None needed under normal use. If dust or fumes are generated during : processing, use with adequate local exhaust ventilation to maintain exposures below D20 the occupational exposure limits.						
8.2	Eye Protection	Wear safety glasses or other eye protection consistent with industrial safety practice for the process being performed.						
8.3	Skin Protection	: Wear protective gloves if need to prevent cuts or other injuries.						
8.4	Respiratory Protection	None needed under normal use. If the occupational exposure limits are exceeded during processing, an approved respirator with high efficiency particulate filters may be used. For higher exposures (greater than 10 times : the exposure limit) a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow local authority regulations and good Industrial Hygiene practice.						
9.0		Physical and Chemical Properties						
9.1	Physical State	: Solid						
9.2		: Odourless						
9.3	Molecular Weight	: 7850 kg/m ³						
9.4	Melting Point	: 1,426 to 1,538 °C (2,599 to 2,800 °F)						
9.5	Specific Gravity	: 1.47						
10.0 Stability and Reactivity								
	Stability	: Stable						
	Conditions of instability	: Above melting point may liberate fumes containing oxides of alloying elements						
	Incompatibility	: Reacts with strong acids to form hydrogen gas.						
10.4	Hazardous Decomposition	: Toxic metal fumes emitted when product is heated above the melting point						





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11.0	Toxicological Information				
Carbon steel is not toxi	c				
12.0	Ecological information				
No known harmful effe	cts. No special precautions are required.				
13.0	Disposal Considerations				
Waste must be disposed in accordance with federal, state and local environmental control regulations.					
14.0	Transport Information				
No special precautions	required – non-hazardous for road, sea or air.				
Disclaimer	The information given in the safety datasheet is based on the present level of our knowledge and experience. The data sheet describes the products with respect to safety requirements. The data given is not intended as a confirmation of product properties and does not constitute a legal contractual relationship, nor should it be used as the basis for ordering these products.				



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