



2705

INFORMATION AND EMERGENCY NUMBER

414-255-3200

**MATERIAL SAFETY  
DATA SHEET**

ISSUE DATE

7/1/86

REVISED

**SECTION 1 - PRODUCT IDENTIFICATION**

MANUFACTURER'S NAME

The MILWAUKEE BRUSH Mfg. Co., P.O. Box 830, Menomonee Falls, WI 53051-0830

PRODUCT NAME / TRADE NAME

Carbon Steel Wire Brushes

COMMON NAME / GRADE

Wheel, cup, end, roll cleaning, and  
stem mounted**SECTION 2 - HAZARDOUS INGREDIENTS**

NOTE: PRODUCTS UNDER NORMAL CONDITIONS DO NOT REPRESENT AN INHALATION, INGESTION OR CONTACT HEALTH HAZARD.

BASE METAL, ALLOYING ELEMENTS  
AND METALLIC COATINGS

% COMPOSITION BY WEIGHT (1)

ACGIH TLV (mg/m<sup>3</sup>) (2)

IRON	Balance	5
Manganese	.25 - 1.25	1.0
Trace Elements	< 2.0	N/A

Protective coatings are applied to the surface of the wire and components and are less than 1% of the weight of the product. Typical coatings are Petroleum Based oils, Phosphates, soap based lubricants, flash or wash metallic coatings of Tin (Stannous) Sulphate, and/or copper sulphate and indenes.

(1) % OF ALLOYING MATERIAL VARIES WITH GRADE OF MATERIAL.

(2) 1985-1986 ACGIH THRESHOLD LIMIT VALUE.

**SECTION 3 - PHYSICAL DATA**

MATERIAL IS (AT NORMAL CONDITIONS)

Solid

APPEARANCE AND ODOR

Gray metal - odorless

MELTING POINT (BASE METAL)

NA

SPECIFIC GRAVITY

7.6 - 7.9

**SECTION 4 - FIRE AND EXPLOSION**

EXTINGUISHING MEDIA

No hazard - not combustible in air

SPECIAL FIRE FIGHTING PROCEDURES

NA

UNUSUAL FIRE AND EXPLOSION HAZARDS

NA

**SECTION 5 - REACTIVITY DATA**

STABILITY

Stable

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid Acids

CONDITIONS TO AVOID

HAZARDOUS DECOMPOSITION PRODUCTS

Fumes and/or gases produced from welding or burning operations.

<b>SECTION 6 - HEALTH HAZARD DATA</b>	
NOTE: STEEL PRODUCTS IN THE NATURAL STATE DO NOT PRESENT AN INHALATION, INGESTION OR CONTACT HAZARD HOWEVER, OPERATIONS SUCH AS BURNING, WELDING, SAWING, BRAZING AND GRINDING MAY RELEASE FUMES AND OR DUSTS WHICH MAY PRESENT HEALTH HAZARDS IF TLVS ARE EXCEEDED	
MAJOR EXPOSURE HAZARD <input type="checkbox"/> INHALATION <input type="checkbox"/> SKIN CONTACT <input type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE CONTACT <input type="checkbox"/> INGESTION	
EFFECTS OF OVEREXPOSURE  <p><b>Health Effects/Signs and Symptoms</b> - Exposure to the constituents of these products will only occur during activities such as welding or burning. However, because of the low toxicity of the components and or the low air levels anticipated during such activities, these products are not considered to be hazardous chemicals as defined by the Federal OSHA Hazard Communication Standard.</p> <p><b>MEDICAL CONDITIONS POSSIBLY AGGRAVATED:</b> - Chronic diseases or disorders of the respiratory system.</p> <p><b>CARCINOGEN INFORMATION:</b> Not considered to be a carcinogen.</p>	
EMERGENCY AND FIRST AID PROCEDURES <div style="margin-left: 150px;"> <b>EYE CONTACT:</b> Flush well with running water to remove particulate.  <b>SKIN CONTACT:</b> Wash area well with soap and water.  <b>INHALATION:</b> Remove to fresh air.  <b>INGESTION:</b> Not considered an ingestion hazard.         </div>	
<b>SECTION 7 - SPILL OR LEAK PROCEDURES</b>	
SPILL OR LEAK PROCEDURES NA	
WASTE DISPOSAL METHODS Any excess product can be recycled for further use or disposed by methods which are in accordance with local, state and federal regulations.	
<b>SECTION 8 - SPECIAL PROTECTION</b>	
RESPIRATORY Use properly fitted N.I.O.S.H. approved dust fume respirator when Engineering controls are not sufficient to lower exposure levels below the applicable exposure limit.	
VENTILATION  Utilize local exhaust to keep dust below T.L.V.	
EYE PROTECTION AND PROTECTIVE CLOTHING  <div style="text-align: center; font-weight: bold;">SEE SECTION 10</div>	
<b>SECTION 9 - SPECIAL PRECAUTIONS</b>	<b>SECTION 10 - WARNING</b>
	<p>In normal power brushing operations, the material being removed, such as burrs, scale, dirt, weld slag, or other residue, will fly off the brush with considerable force along with the brush filaments which break off due to fatigue.</p> <p>The potential of serious injury exists for both the brush operator and others in the work area (possibly 50 or more feet from the brush). To protect against this hazard, before rotating the brush, during rotation, and until rotation stops, operators and others in the area must wear SAFETY GOGGLES or FULL FACE SHIELDS WORN OVER SAFETY GLASSES WITH SIDE SHIELDS, along with PROTECTIVE CLOTHING.</p> <p>You must follow all operator and safety instructions, as well as common safety practices which will reduce the likelihood of severity of physical injury.</p>
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