



Material Safety Data Sheet

Cold Rolled Carbon Steel Strip

Common Name

Arbor Spacers/Shims 24/25/38/39

Identity: Trade Name As Used On Label) and Product

Manufacturer Precision Brand Products Inc.	Phone Number (For Information) 630-969-7200
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SECTION 1 -- MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS--Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	%	OSHA PEL mg/m ³	ACGIH TLV mg/m ³	OTHER LIMITS RECOMMENDED
Iron (Fe) CAS No. 7439-89-6	>98	10	5	
Manganese (Mn) CAS No. 7439-96-5	<2	5	1	
Mineral Oil		5	5	

As FeO₃ fume As fume A thin coating of petroleum based oil (<1% total weight of product) may be added to the surface as a corrosion inhibitor.

SECTION 2 -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	Approximately 8
Vapor Pressure (mm Hg and Temperature)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Vapor Density (Air = 1)	N/A	Water Reactive	
Solubility in Water	N/A	% Volatile by volume	N/A
Appearance and Odor	Odorless solid with metallic luster. Available as CR strip.		

SECTION 3 -- FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used	N/A	Auto-Ignition Temperature	N/A	Flammability Limits in Air % by Volume	LEL N/A	UEL N/A
Extinguisher Media	N/A					
Special Fire Fighting Procedures	N/A					
Unusual Fire and Explosion Hazards	N/A					

SECTION 4 -- REACTIVITY HAZARD DATA

STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions To Avoid	N/A
Incompatibility (Materials to Avoid)	N/A	
Hazardous Decomposition Products	Metal fumes and certain noxious gases, such as CO, may be produced during welding or burning operations.	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions To Avoid	N/A

SECTION 5 -- HEALTH HAZARD DATA	
No threshold limit value (TLV) or permissible exposure limit (PEL) exists for steel. See Section 2 for individual constituents.	
	PRIMARY ROUTES OF ENTRY: Inhalation is primary source of overexposure. Remove affected person to fresh air. Use artificial respiration or oxygen if necessary.
HEALTH	Acute <i>Iron (iron-oxide):</i> Irritation of eyes, nose, throat, metallic taste in mouth or metal fume fever. <i>Manganese:</i> Irritation of eyes, nose, throat, metallic taste in mouth or metal fume fever.
HAZARDS	Chronic <i>Iron (iron-oxide):</i> Pulmonary effects, siderosis. <i>Manganese:</i> Bronchitis, pneumonitis, lack of coordination.
Signs and Symptoms of Exposure	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 result in the effects above if exposures exceed permissible limits as listed in Section 1.
EMERGENCY FIRST AID PROCEDURES -- Seek medical assistance for further treatment, observation and support if necessary.	
Eye Contact	May cause irritation. Flush with water for 15 minutes. Seek medical attention if necessary
Skin Contact	May cause irritation. Oil coatings may cause dermatitis. Wash affected area with soap and water.
Inhalation	Seek medical attention if necessary. Treat metal fume fever with bed rest and administer pain and fever reducing medication if necessary.
Ingestion	May cause irritation of throat and mouth.

SECTION 6 -- CONTROL AND PROTECTIVE MEASURES			
Respiratory Protection (Specify Type)	NIOSH-approved dust-fume respirator recommended when grinding, welding or burning if fumes exceed threshold limit values.		
Protective Gloves	Welders gloves when welding or burning.	Eye Protection	Use face shield (8" minimum) and/or goggles when welding, burning or grinding
VENTILATION TO BE USED	<input checked="" type="checkbox"/> Local Exhaust When welding or burning	<input type="checkbox"/> Mechanical (general) N/A	<input type="checkbox"/> Special N/A
Other Protective Clothing and Equipment	Welders apron recommended when welding or burning.		

SECTION 7-- PRECAUTIONS FOR SAFE HANDLING & USE/LEAK PROCEDURES	
Steps to be Taken If Material Is Spilled Or Released	N/A
Waste Disposal Methods	N/A
Precautions to be Taken in Handling and Storage	N/A
Other Precautions and/or Special Hazards	N/A

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