

MATERIAL SAFETY DATA SHEET

1075 Carbon Steel Tire Wire



Florida Tire Recycling, Inc.

Providing Environmental Solutions

Manufactured by:

Florida Tire Recycling, Inc.
9675 Range Line Road
Port St. Lucie, FL 34987

Telephone: 772-465-0477
Fax: 772-489-2124

SECTION 1 – MATERIAL IDENTIFICATION AND USE

Material Name : CARBON STEEL

Chemical Family: Steel

Material Use: Production of Steel Products (including mesh, wire and bar products)

Chemical Formula and Molecular Weight: not applicable

Chemical Name, Trade Names and Synonyms: not applicable

SECTION 2 – HAZARDOUS INGREDIENTS OF MATERIAL

ELEMENT	MAXIMUM*	PEL as fume (mg/m3)
Carbon	1.00	3.5
Manganese	2.20	5.0
Phosphorus	2.25	0.1
Sulphur	0.50	n/a
Lead	n/a	0.05
Silicon	n/a	5.0
Iron	balance	10.0

***NOTE:** concentrations represent a maximum for all grades and must not be interpreted as a specification for a particular grade.

COATINGS: Material may be oiled, lime coated, or galvanized

SECTION 3 – PHYSICAL DATA FOR STEEL

Physical State and Appearance: Solid material. Silver or grey metallic

Specific Gravity: 7.6-7.8.

Melting Point: Material melts at 1530°C

Vapor Pressure and Density: not applicable

Evaporation Rate and Boiling Point: not applicable

% Volatiles and Odor Threshold: not applicable

Solubility in Water and pH: not applicable

SECTION 4 – FIRE AND EXPLOSION HAZARDS

Flammability: not flammable

Means of Extinction or Special Procedures: not applicable

Auto Ignition Temperature and Rate of Burning: not applicable

Flash Point and Upper/Lower Explosion Limits: not applicable

Sensitivity to Chemical Impact and Static Discharge: not applicable

Hazardous Combustion Products: not applicable

NOTE: Thermal degradation of coatings may release irritating hydrocarbons

SECTION 5 – REACTIVITY DATA

Chemically Stable: Yes

Incompatibility with other Substances: not applicable

Reactivity and Conditions: contact with mineral acids will release hydrogen gas.

Hazardous Decomposition Products: Welding or cutting will generate fume.

SECTION 6 – TOXICOLOGICAL INFORMATION

Routes of Entry: None for the material in its natural state. Skin or eye contact with the oil coatings on the material.

Effects of Acute Exposure to Products: Welding or cutting will generate fumes. Inhalation overexposure to manganese fume may cause a flu-like condition (e.g. chills, nausea) called metal fume fever. Skin or eye irritation to oil coatings.

Effects of Chronic Exposure to Products: Welding or cutting will generate metal fume and dust. Prolonged inhalation overexposure to dust or fume may result in conditions such as Siderosis with few or no symptoms (Siderosis is an accumulation of iron oxide in the lungs). Skin contact with coating materials may cause skin irritation and/or dermatitis with prolonged contact.

Sensitization to Product: no known effects

Synergistic Materials: no known effects

Mutagenic, Teratogenic, or Reproductive Effects: no known effects

SECTION 7 – PREVENTIVE MEASURES

Personal Protective equipment: Personal protective equipment required is dependent on the process being performed on the material (e.g. burning or cutting). Each operation must be addressed for suitable personal protective equipment.

Gloves: recommended for prolonged contact. Barrier creams may be used when handling oily steel.

Glasses and footwear: to be worn as required or as appropriate.

Respirators: NIOSH approved respiratory protection as appropriate.

Engineering Controls: use appropriate ventilation (general or local) when welding, cutting or grinding.

SECTION 8 – FIRST AID

Skin: wash affected area with soap and water. Seek medical attention if irritation persists.

Eyes: Flush eyes with plenty of water while holding eyelids open. Seek medical attention if irritation persists.

Inhalation: For overexposure to metal fumes, remove to fresh air. Seek medical attention for adverse symptoms.

Ingestion: not applicable

SECTION 9 – PREPARATION DATA

Prepared by: Jacqueline L. Wilson, Quality Assurance Manager

Telephone: 772-465-0477 Ext. 26

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