

MATERIAL SAFETY DATA SHEET
HOT ROLLED WIRE ROD
SECTION I - MATERIAL IDENTIFICATION

Manufacturer's Name Gerdau AmeriSteel	Emergency Telephone Number 813/286-8383
Contact Matt D. Moore Director, Safety & Health	Telephone Number for Information 813/286-8383
Address P. O. Box 31328 Tampa, FL 33631-3328	
Product Hot Rolled Wire Rod	Chemical Name Iron and Various Alloys

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Hazardous Components (Common Name)</u>	<u>CAS No.</u>	<u>OSHA PEL (mg/m³)</u>	<u>ACGIH TLV (mg/m³)</u>	<u>Other Limits Recommended</u>	<u>% (optional)</u>
Iron (as Iron Oxide fume)	1309-37-1	10.0	5.0	n/a	97.0
Carbon (as Carbon Dioxide)	124-38-9	18,000.0	9,000.0	n/a	0.9
Manganese	7439-96-5	5.0	5.0	n/a	2.0
Phosphorous (yellow)	7723-14-0	0.1	0.1	n/a	0.06
Sulfur (as Sulfur Dioxide)	7446-09-5	5.0	5.2	n/a	0.08
Silicon	7740-21-3	5.0	10.0	n/a	0.4
Copper (as fume)	7440-50-8	0.1	0.2	n/a	1.5
Vanadium (as fume)	1314-62-1	0.05	0.05	n/a	0.05
Nickel	7440-02-0	0.1	0.05	n/a	0.5
Tin (inorganic)	7740-31-5	2.0	2.0	n/a	0.08

SECTION III - PHYSICAL DATA

Boiling Point	N/A	Percent Volatiles	N/A
Vapor Pressure	N/A	Solubility in H₂O	N/A
Specific Gravity	7	Evaporation Rate	N/A
Melting Point	2600-2800 degrees	Appearance and Odor	Gray Solid/Odorless
Vapor Density	N/A	Physical State	Solid

SECTION IV - HEALTH HAZARD DATA

Steel products in the solid state do not present any known health hazards. However, some users' processes such as welding, burning, sawing, grinding, or cutting may produce fume or dusts. Health hazard data is given for fume or dusts.

Effects of Overexposure

Acute Irritation of eyes, nose, throat and lungs. Contact dermatitis. Metal fume fever or flu-like symptoms.

Chronic Bronchitis, pneumonitis, siderosis, inflammation of upper respiratory tract, headaches, lack of coordination, and acute metal fume fever.

Major Exposure Hazard Inhalation.

SECTION V - FIRE AND EXPLOSION DATA

Flash Point	N/A	Extinguishing Media	N/A
Autoignition Temperature	N/A	Special Fire Fighting Data	N/A
Flammability Limits	N/A	Explosion Hazard	N/A

SECTION VI - REACTIVITY DATA

Stability	Stable	Decomposition Products	Iron Oxide
Incompatibility	N/A	Hazardous Polymerization	N/A

SECTION VII - SPILL OR LEAK PROCEDURES

Spill or Leak	N/A
Disposal	Follow solid waste disposal regulations of local, state, and Federal agencies.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection	NIOSH-approved dust/mist/fume respirator if P.E.L. is exceeded.
Ventilation	Provide local ventilation to keep welding fume or dusts below P.E.L.
Gloves	As per American Welding Society recommendations.
Protective Clothing	As per American Welding Society recommendations.
Eyes	Safety glasses as per ANSI STD Z-86.1. Welding hood for welding, cutting, burning, or brazing.
Other	As per applicable standards for process.

SECTION IX - SPECIAL PRECAUTIONS

User should consult applicable standards for specific process employed to determine any special precautions needed to insure the health and safety of its employees.