

# MATERIAL SAFETY DATA SHEET

# TRACK SPIKE

## SECTION I - PRODUCT IDENTIFICATION

**Manufacturer's Name**

Gerdau AmeriSteel

**Contact**

Matt D. Moore  
Director, Safety & Health

**Address**

P. O. Box 31328  
Tampa, FL 33631-3328

**Product**

Track Spike

**Emergency Telephone Number**

813/286-8383

**Telephone Number for Information**

813/286-8383

**Date Prepared**

08/88

**Chemical Name**

Iron and Various Alloys

## SECTION II - INGREDIENTS AND HAZARDS

<u>Hazardous Components (Common Name)</u>	<u>CAS No.</u>	<u>OSHA PEL (mg/m<sup>3</sup>)</u>	<u>ACGIH TLV (mg/m<sup>3</sup>)</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

**Vapor Pressure** - N/A

**Specific Gravity** - 7

**Melting Point** - 2600-2800 Degrees

**Vapor Density** - N/A

**Percent Volatiles** - N/A

**Solubility in H<sub>2</sub>O** - N/A

**Evaporation Rate** - N/A

**Appearance and Odor** - Gray Solid/Odorless

**Physical State** - Solid

## SECTION IV - HEALTH HAZARD DATA

Steel products in the solid state do not present any known health hazards. However, 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  
**Autoignition Temperature** - N/A  
**Flammability Limits** - N/A

**Extinguishing Media** - N/A  
**Special Fire Fighting Data** - N/A  
**Explosion Hazard** - N/A

#### **SECTION VI - REACTIVITY DATA**

**Stability** - Stable  
**Incompatibility** - N/A

**Decomposition Products** - Iron Oxide  
**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**

Use of personal protection equipment for hands and eyes is recommended.  
NIOSH-approved dust/mist/fume respirator if P.E.L. is exceeded.

#### **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.