MATERIAL SAFETY DATA SHEET

CARBON STEEL

SECTION I - MATERIAL IDENTIFICATION

Manufacturer's Name

37. 700

Gerdau AmeriSteel

Contact

Matt D. Moore

Director, Safety & Health

Address

P. O. Box 31328

Tampa, FL 33631-3328

Chemical Name

Emergency Telephone Number

Telephone Number for Information 813/286-8383

813/286-8383

Iron and Various Alloys, Mild Steel (low Carbon)

Product

Plain Carbon or Low Alloy Steel: Grades A.S.T.M. 1005-10100, 1513-1572, (A36, A242, A529, A569, A572, A588, A615, A709, A992, F432s)

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CAS No.	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)	Other Limits Recommended	% (optional)
1309-37-1	10.0	5.0	n/a	97.0
124-38-9	9,000.0	9,000.0	n/a	0.9
7439-96-5	5.0	5.0	n/a	2.0
7723-14-0	0.1	0.1	n/a	0.06
7446-09-5	5.0	2.0	n/a	0.08
7740-21-3	(TWA) 5.0	(TWA) 10.0	n/a	0.4
7440-50-8	0.1	0.2	n/a	1.5
1314-62-1	0.05	0.05	n/a	0.05
7440-02-0	0.1	0.05	n/a	0.5
7740-31-5	2.0	2.0	n/a	0.08
	1309-37-1 124-38-9 7439-96-5 7723-14-0 7446-09-5 7740-21-3 7440-50-8 1314-62-1 7440-02-0	$\begin{array}{c cccc} \underline{\text{CAS No.}} & \underline{\text{(mg/m}^3)} \\ 1309-37-1 & 10.0 \\ 124-38-9 & 9,000.0 \\ 7439-96-5 & 5.0 \\ 7723-14-0 & 0.1 \\ 7446-09-5 & 5.0 \\ 7740-21-3 & (TWA) 5.0 \\ 7440-50-8 & 0.1 \\ 1314-62-1 & 0.05 \\ 7440-02-0 & 0.1 \\ \end{array}$	$\begin{array}{c ccccc} \underline{\text{CAS No.}} & \underline{\text{(mg/m}^3)} & \underline{\text{(mg/m}^3)} \\ 1309-37-1 & 10.0 & 5.0 \\ 124-38-9 & 9,000.0 & 9,000.0 \\ 7439-96-5 & 5.0 & 5.0 \\ 7723-14-0 & 0.1 & 0.1 \\ 7446-09-5 & 5.0 & 2.0 \\ 7740-21-3 & (TWA) 5.0 & (TWA) 10.0 \\ 7440-50-8 & 0.1 & 0.2 \\ 1314-62-1 & 0.05 & 0.05 \\ 7440-02-0 & 0.1 & 0.05 \end{array}$	CAS No. (mg/m³) (mg/m³) Recommended 1309-37-1 10.0 5.0 n/a 124-38-9 9,000.0 9,000.0 n/a 7439-96-5 5.0 5.0 n/a 7723-14-0 0.1 0.1 n/a 7446-09-5 5.0 2.0 n/a 7740-21-3 (TWA) 5.0 (TWA) 10.0 n/a 7440-50-8 0.1 0.2 n/a 1314-62-1 0.05 0.05 n/a 7440-02-0 0.1 0.05 n/a

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

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 H2O - N/A Evaporation Rate - N/A Appearance and Odor - Gray Solid/Odorless Physical State - Solid

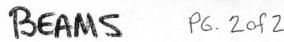
SECTION IV - HEALTH HAZARD DATA

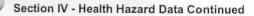
Steel products in the solid state do not present any known health hazards. However, some users' processes such as welding, burning, sawing, grinding, or cutting may produce fume or dusts. Health hazard data is given for fume or dusts.

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.





Emergency and First Aid Procedures - Applicable for Dusts and Mists.

Inhalation - If symptoms of pulmonary involvement develop (coughing, wheezing, etc.) remove from exposure and seek medical attention.

Skin Contact - If irritation or rash occurs, thoroughly wash affected area with soap and water and remove from exposure.

Eye Contact - If irritation occurs, flush with copious amounts of water.

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

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.

Date Reviewed: 05/06