PINTE/SHEET/FL PLATE

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1/8/2009

EAGLE NATIONAL STEEL, LLC 540 SKYLINE DRIVE HUTCHINS, TX 75141 PHONE 972-225-8138 FAX 972-225-7407

# MATERIAL SAFETY DATA SHEET

I. MATERIAL IDENTIFICATION

PRODUCT NAME

CARBON STEEL BAR, SHEETS, PLATE, STRUCTURAL, TUBULAR

MANUFACTURER:

VARIOUS

### II. HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT		EXPOSURE LIMITS			
	CAS NUMBER	WEIGHT	OSHA PEL (mg/m³)	ACGIH TLV (mg/m³)	
Carbon (C) Chromium (Cri Manganese (Mn)- Molytidenum (Mo) Nickei (Ni) Phosphorous (P) Silicon (Sr) Sulfur (S) Iron (Fe)	7440-44-0 7440-47-3 7439-95-5 7439-98-7 7440-02-0 7723-14-0 7440-21-3 7704-34-9 7439-89-6	0.00-1.5 0.00-30 0.05-2.0 0.00-10 0.00-37 0.15 Max 0.00-3 0.000-0.35 100 Max	None Listed 1.0 as chrome 5 as manganese 15 as insoluble compds 1.0 as Nickel 0.1 as Phosphorous None Listed 13 Sulfur dioxide 10 iron tume; N/A as Fa	None Listed 0.5 as chrome saits 5 as dust, 1 tume 10 as insoluble compds 1.0 as Nickel 0.1 as Phosphorous 10 total dust 5 Sulfur dioxide N/A as iron; 5 as Fe	
Zinc (Zn) coating Oil coating (optional)	1325-13-2 SEE ADDITIONAL	> 98 INFORMATION	5.0 as fume	5.0 as tume	

NOTE: The above listing is a summary of elements used in various grades of steel and may contain different combinations of these elements. Trace elements may also be present in minute amounts.

#### III. PHYSICAL DATA

#### MELTING POINT

Base Metal 2750°F Vapor Pressure (MM HG at 20°C) Specific Gravity: Water + 1) Vapor Density (Air - 1)

Not Applicable Greater than 7 Not Applicable Not Applicable

Evaporation Rate Boiling Point Solubility in Water Appearance and Odor

Not Applicable Not Applicable Not Applicable

Black, metallic lustre, odorless

## IV. FIRE AND EXPLOSION DATA

Steel products in the solid state do not present a fire or explosion hazard.

### V. HEALTH/SAFETY INFORMATION

Sleet products in the natural state do not present an inhalation, ingestion, or contact health hazard. However, operations such as welding, burning, sawing, brazing, grinding, and possibly machining, which results in elevating the temperature of the product to or above its melling point or results in the generation of airborne particulates may present hazards. The above operations should be performed in well ventilated areas. The major exposure hazard is inhalation.

### Effects of overexposure are as follows:

Excessive inhalation of metallic furnes and dusts may result in irritation of eyes, nose, and throat. Also high concentrations of furnes and dusts of iron-oxide, manganese, copper, zinc & lead may result in metal tume fever. Typical symptoms consist of a metallic taste in the mouth, dryness and irritation of the throat, chills and lever, and usually last from 12 to 48 hours.

Chronic and prolonged inhalation of high concentrations of times or dust of the following elements may lead to the condition listed opposite to the element:

Chromium - Various forms of dermatitis, inflammation and/or ulceration of upper respiratory tract, and possible cancer of nasal passages and lungs.

Sulfur (as sulfur dioxide) - Edema of the lungs.

Iron (iron oxide) - Pulmonary effects, siderosis.

Zinc - Arthritis, lameness and inflammation of the gastro-intestinal tract reported from animal studies.

Manganese - Bronchitis, pneumonitis, lack of coordination.

Molybdenum - Pain in joinis, hands, knees and feet. Morphological changes in the liver, kidneys and spleen; anemia, diarrhea, coma, deformity and growth retardation

Nickel - SAME AS CHROMIUM.

Phosphorous - Necrosis of the mandible.

## FIRST AID:

INHALATION of airborne tumes and particulates, remove to fresh air. Get medical attention.

Eye Contact: Immediately flush well with running water. Get medical attention:

If irritation develops, remove clothing and wash well with soap and water.

If condition persists, get medical attention.

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REACTIVITY

Stability

incompatibility (Materials to Avoid)

Stable

Reacts with strong acids to form hydrogen gas

Keep Area Well Ventilated

Conditions to Avoid

Non-ventilated areas when cutting, welding, burning, or brazing; avoid generation of airborne dusts and fumes.

Hazardous Decomposition Products

Metallic Oxides

VI. ENVIRONMENTAL

Spill or Leak Procedures:

Special Precautions: Use good housekeeping practices to prevent accumulation of dust and to keep airborne dust to a minimum.

Waste Disposal Method

Dust, etc. - Follow federal, state, and local regulations regarding disposal.

## VII. ADDITIONAL INFORMATION

#### Disclaimer

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied regarding the accuracy or correctness.

The possible presence of oil coatings on steel products should be recognized and considered when evaluating potential employee health hazards and exposures during welding or other dust/fume generating activities.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.