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MATERIAL SAFETY DATA SHEET

I. MATERIAL IDENTIFICATION

PRODUCT NAME

CARBON STEEL BAR, SHEETS, PLATE, STRUCTURAL, TUBULAR

MANUFACTURER:

VARIOUS

II. HAZARDOUS INGREDIENTS

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

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

Steel 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 melting 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:

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

Chronic: Chronic and prolonged inhalation of high concentrations of fumes 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.

FIRST AID:

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

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

Skin Contact: If irritation develops, remove clothing and wash well with soap and water. If condition persists, get medical attention.

Molybdenum - Pain in joints, 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.

REACTIVITY

Stability

Stable

Incompatibility (Materials to Avoid)

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: NA

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.