MATERIAL SAFETY DATA SHEET
PLAIN STEEL, MILL GALVANIZED STEEL, HOTDIP GALVANIZED AFTER FABRICATION, ELECTRO GALV. (Carbon, Alloy Steels) revised June 30, 2000

I. PRODUCT INFORMATION
Company: Heckmann Building Products Inc.,
1501 N. 31st Avenue
Melrose Park, IL 60160   708-865-2403

Trade Name: Plain Steel, Mill Galvanized Steel.

Chemical Name: Steel

Form: Masonry Anchors & Ties, Flashings, Rounds, Steel Building Anchors.

II. PRODUCT INGREDIENTS

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>CAS NUMBER</th>
<th>% WEIGHT</th>
<th>OSHA PEL (mg/m3)</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Metal Iron (Fe)</td>
<td>7439-89-6</td>
<td>Balance</td>
<td>10 (Fe,o,Fume)</td>
<td>5.0 (Fe,O,Fume)</td>
</tr>
<tr>
<td>Alloying Elements</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon (C)</td>
<td>7440-44-0</td>
<td>0.01-1.5</td>
<td>None Listed</td>
<td>None Listed</td>
</tr>
<tr>
<td>Chromium (Cr)</td>
<td>7440-47-3</td>
<td>0.01-12</td>
<td>1.0 as chrome</td>
<td>0.5 as chrome</td>
</tr>
<tr>
<td>Copper (Cu)</td>
<td>7440-50-8</td>
<td>0.04-0.7</td>
<td>0.2 as copper</td>
<td>0.2 as fume</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1.0 as dust</td>
<td>1.0 as dust</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>7439-92-1</td>
<td>0.15-0.35</td>
<td>0.05 as fume</td>
<td>0.15 as dust &amp; fume</td>
</tr>
<tr>
<td>Manganese (Mn)</td>
<td>7439-96-5</td>
<td>0.05-2.0</td>
<td>5 as manganese</td>
<td>5 as dust 1 as fume</td>
</tr>
<tr>
<td>Molybdenum (Mo)</td>
<td>7439-98-7</td>
<td>0.01-1.10</td>
<td>15 as insoluble</td>
<td>10 as insoluble comp.</td>
</tr>
<tr>
<td>Nickel (Ni)</td>
<td>7440-02-0</td>
<td>0.01-10</td>
<td>1.0 as Nickel</td>
<td>1.0 as Nickel</td>
</tr>
<tr>
<td>Phosphorous (P)</td>
<td>7723-14-0</td>
<td>0.15 Max</td>
<td>0.1 as Phos</td>
<td>0.1 as Phosphorous</td>
</tr>
<tr>
<td>Silicon (Si)</td>
<td>7440-21-3</td>
<td>0.15-2.2</td>
<td>None Listed</td>
<td>10 total dust</td>
</tr>
<tr>
<td>Sulphur (S)</td>
<td>7704-34-09</td>
<td>0.001-0.35</td>
<td>13 sulfur dioxide</td>
<td>5 sulfur dioxide</td>
</tr>
<tr>
<td>Tungsten (W)</td>
<td>7440-33-7</td>
<td>0.0-18</td>
<td>None Listed</td>
<td>5 insoluble compounds</td>
</tr>
<tr>
<td>Vanadium (V)</td>
<td>7440-62-2</td>
<td>0.01-1.0</td>
<td>0.5 as dust</td>
<td>0.05 dust and fume</td>
</tr>
<tr>
<td>Zinc (Zn) Coating</td>
<td>1314-13-2</td>
<td>10 Max</td>
<td>5.0 as fume</td>
<td>5.0 as fume</td>
</tr>
</tbody>
</table>

Note: The above listing is a summary of elements used in alloying steel. Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts.
Plain Steel, Mill Galvanized Steel - MSDS Page 2 Heckmann Building Products Inc.

III. PHYSICAL DATA
PHYSICAL FORM: Solid under normal conditions. BOILING POINT: Not applicable.
APPEARANCE & ODOR: Grey-Black with Metallic Luster Odorless. VAPOR PRESSURE: Not applicable.
SPECIFIC GRAVITY (H2O = 1): 7 VAPOR DENSITY: Not applicable.
MELTING POINT: 2750 degrees F ACIDITY/ALKANITY: Not applicable.
SOLUBILITY IN WATER % by weight: Not applicable.
% VOLITILE BY VOLUME: Not applicable.

IV. PERSONAL PROTECTIVE EQUIPMENT
RESIRATORY PROTECTION: NIOSH approved dust/mist/fume respirator should be used during welding or burning if OSHA PEL or TLV is exceeded.
HANDS, ARMS, BODY: Use appropriate protective clothing such as welders aprons & gloves when welding or burning. Check local codes.
EYES & FACE: Safety glasses should always be worn when grinding or cutting: face shields should be worn when welding or burning.
OTHER CLOTHING AND EQUIPMENT: As required. (Makes sense, doesn't it!)

V. EMERGENCY MEDICAL PROCEDURES
INHALATION: Remove to fresh air; if condition continues, consult physician.
EYE CONTACT: Immediately flush well with running water to remove particulate; get medical attention.
SKIN CONTACT: If irritation develops, remove clothing and wash well with soap and water. If condition persists, seek medical attention.
INGESTION: If significant amounts of metal are ingested, consult physician.

VI. 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.
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, and lead may result in the dreaded 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 conditions listed opposite the element:
IRON: Pulmonary effects, siderosis.
MANGANESE: Bronchitis, pneumonitis, lack of coordination.
CHROMIUM: Various forms of dermatitis, inflammation and/or ulceration of upper respiratory tract, and possible cancer of nasal passages and lungs. Based on available information, there does not appear to be any evidence that exposure to welding fume induces human cancer.
NICKEL: Same as Chromium.
COPPER: Pulmonary effects.
VANADIUM: No reported cases of exposure to vanadium.
MOLYBDENUM: Pain in the joints, hands, knees, and feet.
TUNGSTEN: Some evidence of pulmonary involvement such as cough.
LEAD: Prolonged exposures can cause behavioral changes, kidney damage, periphery neuropathy characterized by decreased hand-grip strength and adverse reproductive effects.
ZINC: None reported.

VII. FIRE AND EXPLOSION
FLASH POINT: Not Applicable.
AUTO IGNITION TEMPERATURE: Not Applicable.
LIMITS IN AIR: Not Applicable.
FIRE AND EXPLOSION HAZARDS: None
EXTINGUISHING MEDIA NOT TO BE USED: None.

VIII. REACTIVITY
Material is stable under normal conditions.
INCOMPATIBILITY: Reacts with strong acids to form hydrogen gas.
Conditions to avoid: Keep area well ventilated when cutting, welding, burning, or brazing. Avoid generation of airborne dusts and fumes.
HAZARDOUS DECOMPOSITION PRODUCTS: Metallic oxides.

IX. ENVIRONMENTAL
Spill or lead procedures: Not applicable. 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.

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