PRODUCT NAME: BLACK ANNEALED CARBON STEEL

PERMISSIBLE EXPOSURE LIMIT (Mg/M3)

<table>
<thead>
<tr>
<th>ELEMENT</th>
<th>C.A.S. NO.</th>
<th>WT %</th>
<th>P.E.L. (OSHA)</th>
<th>T.V.L. (ACGIH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRON</td>
<td>7439-89-6</td>
<td>BALANCE</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>MANGANESE</td>
<td>7439-96-5</td>
<td>.25 – 2.0</td>
<td>5</td>
<td>1.0</td>
</tr>
<tr>
<td>TRACE ELEMENTS</td>
<td>N.A.</td>
<td>LESS THAN 2.0</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

PHYSICAL DATA

APPEARANCE AND ODOR: SOLID OR ORLESS GREY METAL
BOILING POINT: N/A
MELTING POINT: 2800 DEGREES F
SOLUBILITY IN WATER: N/A
SPECIFIC GRAVITY: 7.6 – 7.8
VAPOR PRESSURE: N/A
VAPOR DESSITY: N/A
EVAPORATION RATE: N/A
% VOLATILE: N/A

COATING DESCRIPTION:

MAY BE LIME, LIME-ATERATE, GREASE, SOAP, COPPER, LIQUOR, PHOSPHATE, OILED

THE POSSIBLE PRESENCE OF THESE COATINGS SHOULD BE RECOGNIZED AND CONSIDERED WHEN EVALUATING POTENTIAL EMPLOYEE HEALTH HAZARDS AND EXPOSURES DURING WELDING OR OTHER DUST/FUME GENERATING ACTIVITIES.

EFFECTS OF OVEREXPOSURE:

INHALATION – ACCUTE EFFECTS
   - CHRONIC EFFECTS
SKIN CONTACT –
SKIN ABSORPTION – N/A
EYE CONTACT –
INGESTION – N/S

HIGH CONCENTRATIONS OF FUME MAY CAUSE RESPIRATORY IRRITATION.
PROLONGED EXPOSURE TO FUME MAY CAUSE RESPIRATORY DIFFICULTY.
DERMATTITS MAY RESULT FROM PROLONGED OR REPEATED CONTACT WITH COATING.
IRRITATION MAY RESULT FROM CONTACT WITH COATING.
EMERGENCY FIRST AID PROCEDURES:

- **EYE**
  - FLUSH WITH PLENTY OF WATER
- **SKIN**
  - WASH CONTAMINATED AREA WITH SOAP AND WATER
- **INHALATION**
  - MOVE TO FRESH AIR IF FUME EXPOSURE CAUSES IRRITATION
- **INGESTION**
  - N/A

REACTIVITY DATA:

- **STABILITY**
  - STABLE
- **REACTIVITY**
  - MAY REACT WITH ACIDS TO RELEASE HYDROGEN

HAZARDOUS DECOMPOSITION PRODUCTS

- FUMES AND/OR GASES
- PRODUCED FROM WELDING OR BURNING OPERATIONS.

SPECIAL PROTECTION INFORMATION:

- **VENTILATION REQUIREMENTS**
  - TORCH CUTTING AND WELDING SHOULD BE PERFORMED WITH ADEQUATE VENTILATION
- **RESPIRATORY PROTECTION**
  - NIOSH APPROVE FUME REPIRATOR IF TORCH CUTTING OR WELDING IN POORLY VENTILATED AREA.
- **EYE PROTECTION**
  - REQUIRED FOR GRINDING, WELDING, ETC.
- **SKIN PROTECTION**
  - USE PROTECTIVE GLOVES IF PROLONGED CONTACT REQUIRED.

SPECIAL PRECAUTIONS:

- EFFECTIVE FUME CONTROL NECESSARY.