MANUFACTURER:
BUCYRUS BLADES, Inc.
P. O. Box 623
Bucyrus, OH 44820
419-562-6015

MATERIAL SAFETY DATA SHEET

PREPARED: May 19, 1986

CONTACT PERSON:
Erl W. Adel
Safety Director

PRODUCT IDENTIFICATION

RECEIVED 7990 JAN 21 1990

PRODUCT NAME:
Carbon Steel

INGREDIENTS

<table>
<thead>
<tr>
<th></th>
<th>% Wt.</th>
<th>OSHA</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>佩尔 (mg/m³)</td>
<td>(μG/m³)</td>
</tr>
<tr>
<td>Iron</td>
<td>Balance</td>
<td>10 oxide fume</td>
<td>5 oxide fume</td>
</tr>
<tr>
<td>Carbon</td>
<td>.20 - .98</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Manganese</td>
<td>.80 - 1.45</td>
<td>5 dust &amp; fume</td>
<td>5 dust/1 fume</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>.040 max</td>
<td>0.1 Phosphorus</td>
<td>0.1 Phosphorus</td>
</tr>
<tr>
<td>Sulfur</td>
<td>.050 max</td>
<td>13 Sulf. Dioxide</td>
<td>5 Sulf. Dioxide</td>
</tr>
<tr>
<td>Boron</td>
<td>.0005/.008</td>
<td>15 oxide fume</td>
<td>10 oxide fume</td>
</tr>
<tr>
<td>Silicon</td>
<td>.15/.30</td>
<td>None established</td>
<td>10 total dust</td>
</tr>
</tbody>
</table>

PHYSICAL DATA

Physical Form: Solid under normal conditions
Appearance & Odor: Gray-Black or Silver-Gray odorless metal
Melting Point: Approx. 2800°F

FIRE & EXPLOSION DATA

Steel Products in the solid state present no fire or explosion hazard.

REACTIVITY DATA

Stable under normal conditions of use, storage and transport. Will react with strong acid to liberate hydrogen. At temperatures above the melting point, may liberate fumes containing oxides of iron and alloying elements.

HEALTH HAZARD DATA

Steel Products under normal conditions do not present an inhalation, ingestion, or contact health hazard. However, operations such as burning and welding, which results in elevating the temperature to or above its melting point, may result in airborne particles which may present a health hazard.

SPILL OR LEAK PROCEDURES

Not applicable to steel in the solid state.

SPECIAL PROTECTION

Proper ventilation must be provided when welding & flame cutting. The dried paint contains no hazardous ingredients so that the ventilation required for welding & flame cutting will also suffice for the painted surface. Eye & skin protection must be provided for all machining operations.