MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 05-06-96

CHEMICAL IDENTITY

<table>
<thead>
<tr>
<th>LABEL IDENTITY</th>
<th>IRON METAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMICAL NAME/SYNONYMS</td>
<td>IRON METAL</td>
</tr>
<tr>
<td>FORMULA</td>
<td>Fe</td>
</tr>
<tr>
<td>CHEMICAL FAMILY</td>
<td>METAL</td>
</tr>
<tr>
<td>CAS REGISTRY NUMBER</td>
<td>7439-89-6, LISTED IN TSCA INVENTORY</td>
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<tr>
<td>HAZARDOUS INGREDIENTS</td>
<td>IRRON</td>
</tr>
<tr>
<td>%:</td>
<td>100</td>
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<tr>
<td>TLV:</td>
<td>5mg/m3 (for Fe2O3 fumes as Fe)</td>
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PHYSICAL AND CHEMICAL PROPERTIES

| COLOR, FORM AND ODOR                  | gray metallic powder or pieces, no odor |
| BOILING POINT                         | 275°                                   |
| DENSITY (gm/cc)                       | 7.86                                   |
| VAPOR PRESSURE @ 20°                  | NA                                     |
| % VOLATILE BY VOLUME (%)              | NA                                     |
| REACTION WITH WATER                   | None                                   |
| EVAPORATION RATE (H2O=1)              | NA                                     |
| SOLUBILITY IN WATER                   | Insoluble                              |
| MELTING POINT                         | 1535                                   |

FIRE AND EXPLOSION HAZARD DATA

| FLASH POINT                          | NA                                     |
| AUTOIGNITION TEMPERATURE (°C)        | NA                                     |
| FLAMMABILITY                         | Very low as powder                     |
| EXTINGUISHING MEDIA                  | Agent for metal fires (G-1 powder, TEC or MET-L-X) |
| SPECIAL FIRE FIGHTING PROCEDURES     | None                                   |
| UNUSUAL FIRE & EXPLOSION HAZARDS     | None                                   |
HEALTH HAZARD INFORMATION

TOXICITY DATA
HMIS RATING: ND
  HEALTH: 0  FLAMMABILITY: 0  REACTIVITY: 0  PERSONAL PROTECTION: B

ROUTES OF ENTRY
  INHALATION: Yes
  SKIN: ND
  INGESTION: ND

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Lung Disorders
EFFECTS OF OVEREXPOSURE (acute and chronic):
  INHALATION: inhalation of iron or iron oxide on an acute basis has not been shown to produce pulmonary injury. Very long term exposure can cause a form of benign pneumoconiosis.
  DERMAL/EYE: mild irritation to eye. Not considered a primary skin irritant.
  OTHER: iron possesses a low order of toxicity, but ingestion of large amounts can cause iron poisoning.

CARCINOGENICITY: None  NTP:  IARC MONOGRAPHS:  OSHA REGULATE:

EMERGENCY FIRST AID PROCEDURES:
  INGESTION: induce vomiting
  INHALATION: remove to fresh air
  SKIN CONTACT: flush with soap and water
  EYE CONTACT: flush to remove particles

REACTIVITY DATA

STABILITY: Stable
CONDITIONS CONTRIBUTING TO UNSTABILITY: None
INCOMPATIBILITY (MATERIALS TO AVOID): None
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS POLYMERIZATION: Will Not Occur
CONDITIONS TO AVOID: None
SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Vacuum equipped with HEPA filter.

WASTE DISPOSAL METHOD:
With normal refuse.

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION
Half-mask air purifying respirator for dusty conditions

LOCAL EXHAUST
Recommended

MECHANICAL (general)
Use with adequate ventilation

SPECIAL
NA

OTHER
NA

PROTECTIVE GLOVES
No special gloves needed

EYE PROTECTION
Safety glasses

OTHER PROTECTIVE EQUIPMENT
No special protective equipment is needed

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:
Wash thoroughly after handling, keep container closed.

TRANSPORTATION REQUIREMENTS
DOT CLASS: Not Classified
UN NUMBER: N. C.
IMCO CLASS: N. C.

OTHER:

PRECAUTIONARY LABELING
NONE

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NA= NOT APPLICABLE
ND= NO DATA FOUND