Material Safety Data Sheet

IDENTITY (as Used on Label and List)
MAGNETITE // COAL FLOAT

Section I

Manufacturer's name
QUALITY MAGNETITE LLC

Emergency Telephone Number
(304) 453-2222

Address (Number, Street, City, State and ZIP Code)
2620 BIG SANDY ROAD
KENOVA, WV 25530

Telephone Number for Information
(304) 453-2222

Date Prepared
1/21/2014

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))

<table>
<thead>
<tr>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
<th>Recommended</th>
<th>% (optional)</th>
</tr>
</thead>
</table>

TRADE NAME: MAGNETITE // COAL FLOAT
SYNONYMS: IRON OXIDE; BLACK IRON; MAGNETITE BLACK; IRON BLACK; BLACK IRON OXIDE
CHEMICAL FAMILY: MINERAL

COMPONENT: FERRIC OXIDE RED
CAS NUMBER: 1309-37-1
PERCENTAGE: <97

COMPONENT: SILEN DIOXIDE
CAS NUMBER: 7631-86-9
PERCENTAGE: <3.5

COMPONENT: FERRIC-FERROUS OXIDE
CAS NUMBER: 1317-61-9
PERCENTAGE: <97

COMPONENT: QUARTZ
CAS NUMBER: 14808-60-7
PERCENTAGE: <3.5

Section III—Physical/Chemical Characteristics

Boiling Point Not applicable
Specific Gravity (H₂O = 1) 5.1
Vapor Pressure (mm Hg) Not applicable
Melting Point 2851 F (1566 C)
Vapor Density [AIR = 1] Not applicable
Evaporation Rate (Butyl Acetate = 1) Not applicable

Solvability in Water Insoluble
Appearance and Odor Solid, Grey to Black, Powder, Odorless

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used) Not applicable
Flammable Limits LEL Not applicable UEL Not applicable

Extinguishing Media Use extinguishing agents appropriate for surrounding fire.

Special Fire Fighting Procedures Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Unusual Fire and Explosion Hazards Negligible fire hazard.
### Section V—Reactivity Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Condition</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stability</strong></td>
<td>Stable at normal temperatures and pressures</td>
<td>Unstable Not</td>
</tr>
<tr>
<td></td>
<td>Stable at normal temperatures and pressures</td>
<td>Stable Not</td>
</tr>
<tr>
<td><strong>Incompatibility (Materials to Avoid)</strong></td>
<td>Oxidizing materials</td>
<td></td>
</tr>
<tr>
<td><strong>Hazardous Decomposition or Byproducts</strong></td>
<td>Thermal decomposition products: miscellaneous decomposition products.</td>
<td></td>
</tr>
<tr>
<td><strong>Hazardous Polymerization</strong></td>
<td>May Occur Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>Will Not Occur Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### Section VI—Health Hazard Data

<table>
<thead>
<tr>
<th>Route(s) of Entry</th>
<th>Inhalation?</th>
<th>Skin?</th>
<th>Ingestion?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Health Hazards (Acute and Chronic)**
- Respiratory tract irritation, skin irritation, eye irritation

**Carcinogenicity**
- Not classified as Human Carcinogen
- NTP? No
- IARC Monographs? Human Inadequate Evidence, Animal suggest none.
- OSHA Regulated? No

**Signs and Symptoms of Exposure**
- Difficulty of breathing, chills, fever, nausea, vomiting, diarrhea, chest pain, headache, hyperactivity

**Medical Conditions**
- Generally Aggravated by Exposure Respiratory

**Emergency and First Aid Procedures**
- **Inhalation:** If adverse effects occur, remove to uncontaminated area. Give CPR if not breathing, get immediate medical attention.
- **Skin Contact:** Wash with soap or mild detergent and large amounts of water.
- **Eye Contact:** Flush eyes with plenty of water. Get medical attention if irritation develops or persists.

### Section VII—Precautions for Safe Handling and Use

**Steps to Be Taken in Case Material Is Released or Spilled**
- Keep out of water supplies and sewer, clean up residue with high-efficiency particulate vacuum.

**Shipping Class: 55**
- NFC # 044780-01 Bags 044780-02 Box or Drum

**Waste Disposal Method**
- This product, as supplied, when discarded or disposed of, is not hazardous waste according to 40 CFR 261. Dispose in accordance with all applicable regulations

**Precautions to Be Taken in Handling and Storing**
- Store and handle in accordance with all current regulation and standards.
- Store outside or in a detached building. Avoid creating dust, contact with eyes, skin and clothing.

**Other Precautions**
- None

### Section VII—Control Measures

**Respiratory Protection (Specify Type)**
- A NIOSH approved air-purifying respirator with approved cartridge or canister may be appropriate under extreme circumstances where airborne concentrations are expected to exceed exposure limits.
<table>
<thead>
<tr>
<th></th>
<th>Local Exhaust</th>
<th>Mechanical (General)</th>
<th>Special</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preferred means for controlling exposure.</td>
<td>Preferred means for controlling exposure.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>

**Protective Gloves**
- Wear appropriate chemical resistant gloves.

**Eye Protection**
- Wear appropriate splash resistant safety goggles. Provide an emergency eye wash fountain and / or quick rinse shower in immediate work area.

**Other Protective Clothing or Equipment**
- Wear appropriate chemical resistant clothing.

**Work/Hygiene Practices**
- Avoid causing dust – keep work area well ventilated.