1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Ladle Metallurgy Furnace (LMF) Steelmaking Slag
CAS Number: 65996-71-6 (Slag, steelmaking)
Synonyms: LMF Slag
Use/Description: Aggregate, road base, construction aggregates varying sizes, rock-like material

<table>
<thead>
<tr>
<th>Nucor Mills with LMF - Locations</th>
<th>24 Hour Contact – CHEMTREC 1-800-424-9300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nucor Steel South Carolina</td>
<td>Nucor Steel Berkeley</td>
</tr>
<tr>
<td>300 Steel Mill Road</td>
<td>1455 Hagan Avenue</td>
</tr>
<tr>
<td>Darlington, S.C. 29540</td>
<td>Huger, SC 29450</td>
</tr>
<tr>
<td>(843) 393-5841</td>
<td>(843) 336-6000</td>
</tr>
<tr>
<td>Nucor Steel Auburn</td>
<td>Nucor Steel Tuscaloosa</td>
</tr>
<tr>
<td>25 Quarry Road</td>
<td>1700 Holt Road NE</td>
</tr>
<tr>
<td>Auburn, N.Y. 13021</td>
<td>Tuscaloosa, AL35404</td>
</tr>
<tr>
<td>(315) 253-4561</td>
<td>(205) 556-1310</td>
</tr>
<tr>
<td>Nucor Steel Texas</td>
<td>Nucor Steel Hertford Cnty</td>
</tr>
<tr>
<td>U.S. Highway 79 South</td>
<td>1505 River Road</td>
</tr>
<tr>
<td>Jewett, Texas 75846</td>
<td>Cofield, N.C. 27922</td>
</tr>
<tr>
<td>(903) 626-4461</td>
<td>(252) 356-3700</td>
</tr>
<tr>
<td>Nucor Steel Indiana</td>
<td>Nucor Steel Brandenburg</td>
</tr>
<tr>
<td>4537 South Nucor Road</td>
<td>100 Ronnie Greenwell Commerce Rd.</td>
</tr>
<tr>
<td>Crawfordsville, IN 47933</td>
<td>Brandenburg, KY 40108</td>
</tr>
<tr>
<td>(765) 364-1323</td>
<td></td>
</tr>
<tr>
<td>Nucor Steel Nebraska</td>
<td>Nucor Steel Decatur</td>
</tr>
<tr>
<td>2911 East Nucor Road</td>
<td>4301 Iverson Blvd.</td>
</tr>
<tr>
<td>Norfolk, Nebraska 68701</td>
<td>Trinity, Alabama 35673</td>
</tr>
<tr>
<td>(402) 644-0200</td>
<td>(256) 301-3500</td>
</tr>
<tr>
<td>Nucor Steel Gallatin</td>
<td>Nucor Steel Memphis</td>
</tr>
<tr>
<td>4831 U.S. Hwy 42 West</td>
<td>3601 Paul R. Lowry Road</td>
</tr>
<tr>
<td>Ghent, KY 41045</td>
<td>Memphis, TN 38109</td>
</tr>
<tr>
<td>(859) 567-3100</td>
<td>(901) 786-5900</td>
</tr>
<tr>
<td>Nucor Steel Auburn</td>
<td>Nucor Steel Arkansas</td>
</tr>
<tr>
<td>1700 Holt Road NE</td>
<td>7301 E. Cnty Road 142</td>
</tr>
<tr>
<td>Tuscaloosa, AL35404</td>
<td>Blytheville, AR 72315</td>
</tr>
<tr>
<td>(205) 556-1310</td>
<td>(870) 762-2100</td>
</tr>
<tr>
<td>Nucor Steel Brandenburg</td>
<td></td>
</tr>
<tr>
<td>1505 River Road</td>
<td></td>
</tr>
<tr>
<td>Nucor Steel Gallatin</td>
<td></td>
</tr>
<tr>
<td>4831 U.S. Hwy 42 West</td>
<td></td>
</tr>
<tr>
<td>Ghent, KY 41045</td>
<td></td>
</tr>
<tr>
<td>(859) 567-3100</td>
<td></td>
</tr>
</tbody>
</table>

For general product information, contact mill as listed above. For emergencies, use the 24 Hour Contact.

OSHA Hazards
Target Organ Effect - Lungs, Central Nervous System, Skin Irritation, Eye Irritation

GHS Classification

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Health</th>
<th>Environmental</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Eye Irritation (Category 2B)</td>
<td>Not Classified</td>
<td>Not Classified</td>
</tr>
<tr>
<td></td>
<td>Skin Irritation (Category 2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signal Word</td>
<td>Specific Target Organ Toxicity – Single Exposure (Category 3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazard Statements</td>
<td>Specific Target Organ Toxicity – Repeated Exposure (Category 1 and 1A)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H315</td>
<td>Dust/fume may cause skin irritation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H320</td>
<td>Causes eye irritation.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Danger | Warning
**LMF Steelmaking Slag**

- **H303**: May be harmful if swallowed.
- **H335**: May cause respiratory irritation.
- **H351**: Inhalation of dust/fume suspected of causing cancer.
- **H372**: Inhalation of dust/fume causes damage to respiratory system and central nervous system through prolonged or repeated exposure.
- **H350**: May cause lung cancer

**Precautionary Statements**

- **P202**: Do not handle until all safety precautions have been read and understood.
- **P261**: Avoid breathing dust/fume.
- **P262**: Wash thoroughly after handling.
- **P270**: Do not eat, drink or smoke when using this product.
- **P272**: Contaminated work clothing should not be allowed out of the workplace.
- **P280**: Wear protective gloves / protective clothing / eye protection / face protection.
- **P308 + P313**: If exposed or concerned: Get medical advice/attention.

**Emergency Overview**

**Ladle Metallurgy Furnace Slag** is composed mainly of oxides of iron, calcium, magnesium, and manganese, varying amounts of other metallic oxides, and crystalline silica (cristobalite). Electric arc furnace (EAF) Slag has components that are hazardous under OSHA’s Hazard Communication Standard (29 CFR 19120.1200).

Granular solid or aggregate with no appreciable odor. Skin Irritant, Possibly Corrosive.

**Potential Health Effects**

**Routes of exposure**

Skin Contact, Eye, Inhalation.

**IMMEDIATE EFFECTS:**

**Skin (Contact and Absorption)**

May cause mechanical or chemical irritation, redness and pain. Contains calcium oxide that may cause irritation or damage to the skin.

**Eyes**

May cause mechanical or chemical irritation, tearing, redness and pain. Contains calcium oxide that may cause severe irritation or permanent damage to the tissues of the eye.

**Inhalation**

May cause irritation, coughing. Contains substances that may cause severe irritation one of which is calcium oxide a corrosive. Contains manganese and its salts: Manganese inhalation may cause flu-like illness (metal fume fever), characterized by chills, fever, aching muscles, dryness in the throat and mouth and headache, possible resulting in fatal pneumonia.

**Ingestion**

Not expected to be a normal route of exposure. Ingestion may cause symptoms similar to inhalation.

**DELAYED/LONG TERM EFFECTS:**

**Chronic Exposure**

Contains manganese and its salts: Chronic manganese exposure may affect the Lung, Kidney, Brain / Central Nervous System and Blood /Blood forming organs with early symptoms like sluggishness, sleepiness and weakness in legs. Advanced cases have shown fixed facial expression, emotional
disturbances, spastic gait. Illness closely resembles Parkinson’s Disease. Kidney effects, blood changes, lung damage and manganese psychosis may result from chronic exposure.

May contain crystalline silica. Chronic respiratory exposure to silica may cause lung disease. Symptoms may include shortness of breath, coughing and right heart enlargement or heart failure. Not all individuals with silicosis will exhibit symptoms. Silicosis is progressive and symptoms can appear at any time, even after exposure has ceased. Tobacco smoking may increase the risk of developing lung disorders, including emphysema and lung cancer.

Carcinogenic Effects
May contain crystalline silica that can cause a disease called silicosis. Crystalline silica is classified by the International Agency for Research on Cancer (IARC) as carcinogenic to humans (Group 1). The National Toxicology Program (NTP) has characterized respirable silica as “known to be a human carcinogen”.

Reproductive Effects
No product specific data.

TARGET ORGAN EFFECTS: LUNG, KIDNEY, BRAIN / CENTRAL NERVOUS SYSTEM AND BLOOD FORMING ORGANS.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: COUGHING, IRRITATION TO THE EYE OR SKIN.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>1344-28-1</td>
<td>0-40%</td>
</tr>
</tbody>
</table>

Ladle Metallurgy Furnace Slag is a complex mixture that can change due to changes in feedstocks and the method used for manufacturing steel. Exact specifications for specific products may be available upon request. This Ladle Metallurgy Furnace Slag product may contain small amounts of various elements in addition to those listed. These “trace” or “residual” amounts may exist as intentional additions, or as elements that generally originate in raw materials used. These elements may include, but necessarily limited to (weight %) barium (≤0.004%), boron (≤0.004%), chromium (≤0.004%), manganese (≤0.05%), nickel (≤0.0009%), and titanium (≤0.07%). Product did not contain detectable levels (reporting limit weight %) of hexavalent chromium (<0.00001), antimony (<0.003%), arsenic (<0.003%), beryllium (<0.0004%), bismuth (<0.02%), cadmium (<0.0005%), cobalt (<0.0009%), copper (<0.002%), lead (<0.003%), mercury (<0.000004), molybdenum (<0.001%), potassium (<0.003%), selenium (<0.005%), silver (<0.001%), thallium (<0.003%), tin (<0.0009%), vanadium (<0.0005%), zinc (<0.003%), or zirconium (<0.001%).

4. FIRST AID MEASURES

Inhalation
If overexposure to dusts and/or fumes occurs, remove person to fresh air. If symptoms develop, seek medical attention.

Skin Contact
If irritation occurs, wash affected areas with soap or mild detergent and water. If irritation persists, seek medical attention.

Eye Contact
Flush eyes with large amounts of water to remove particles. Eye injury from solid particles should be treated by a physician.

**Ingestion**
If an excessive amount of dust is ingested, rinse mouth with water. Seek medical attention if you feel unwell.

### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishers appropriate for surrounding materials.

**Special Protective Equipment and Precautions for Firefighters**
Use self-contained breathing apparatus (SCBA) and full-protective clothing when fumes and/or smoke from fire are present.

**Hazardous Combustion Products**
Heat and flames cause release of acrid smoke and metallic oxide fumes.

**Unusual Fire and Explosion Hazards**
Do not use water on molten metal. Accumulation of metal dust can be combustible.

**NFPA Rating**
Health hazard = 1; Fire = 0; Instability = 0.

### 6. ACCIDENTAL RELEASE MEASURES

**Accidental Release**
For spills involving particles, avoid inhalation, eye, or skin contact of dusts using appropriate precautions outlined in this Safety Data Sheet (SDS) (see Section 8). Remove fine, dry material by vacuuming or wet sweeping methods to prevent spreading of the dust. Avoid using compressed air.

**Environmental Precautions**
Do not release particulate into sewers or waterways.

**Methods and Materials for Containment and Cleanup**
Collect material in appropriate labeled containers for recovery or disposal in accordance with federal, state, and local regulations. Follow applicable OSHA regulations (29 CFR 1910.1200) and all other pertinent state and federal requirements.

### 7. HANDLING AND STORAGE PRECAUTIONS

**Precautions for Safe Handling**
Operations with the potential for generating high concentrations of particulate and/or fumes should be evaluated and controlled as necessary. Avoid breathing dust and/or fumes. Practice good housekeeping to minimize the accumulation of surface dust.

**Conditions for Safe Storage**
Store away from strong acids and oxidizers; e.g., sodium hypochlorite. Magnesium oxide reacts violently with halogens.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical</th>
<th>OSHA PEL(^1)</th>
<th>ACGIH TLV(^2)</th>
<th>NIOSH REL(^3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum metal</td>
<td>15 mg/m(^3) (total dust, PNOR)(^5)</td>
<td>10 mg/m(^3)</td>
<td>NE(^4)</td>
</tr>
<tr>
<td></td>
<td>15 mg/m(^3) (respirable, PNOR)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes to Occupational Exposure Limits table:
\(^1\) OSHA Permissible Exposure Limits (PEL) are 8-hour TWA (time-weighted average) concentrations unless otherwise noted. A “C” designation denotes a ceiling limit, which should not be exceeded during a workday.
\(^2\) Threshold Limit Values (TLV) established by the ACGIH are 8-hour TWA concentrations unless otherwise noted.
\(^3\) NIOSH Recommended Exposure Limit (REL) is a TWA concentration for up to a 10-hour workday during a 40-hour workweek. STEL denotes a Short-Term Exposure Limit defined as a 15-minute exposure, which should not be exceeded during a workday.
\(^4\) R = Respirable Fraction; I = Inhalable Fraction; NE = None Established; PNOR = Particulates Not Otherwise Regulated. Includes all inert or nuisance dusts, whether mineral, inorganic, not listed specifically in 29 CFR 1910.1000.

Engineering Controls
General Ventilation: General room ventilation is adequate for processing that does not generate dusts or fumes.
Local Exhaust: For processes that generate dusts or fumes, a local exhaust system is recommended.

Personal Protective Equipment (PPE)
Eye and Face Protection: Safety glasses with side shields for normal use.

Skin Protection
Under normal use, wear work gloves to prevent direct skin contact.

Respiratory Protection
A respiratory protection program that meets OSHA’s 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Where unknown concentrations are encountered or during an emergency, use NIOSH approved supplied air respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: None. PHYSICAL STATE: Granular solid or aggregate.
DENSITY: 3.2 – 3.6 typical SOLUBILITY IN WATER: Partially soluble

10. STABILITY AND REACTIVITY

Stability
Stable under normal storage and handling conditions

Incompatibility
Avoid contact with strong acids or oxidizers; e.g., calcium hypochlorite.
Hazardous Polymerization
Will not occur

Chemical incompatibilities
Iron oxide dusts in contact with calcium hypochlorite can evolve oxygen and may be sufficient to cause an explosion.

Hazardous Decomposition Products
Under fire conditions, product may release toxic metal oxide fumes and/or carbon monoxide or carbon dioxide.

Other
This product is a mixture that contains a large percentage of hygroscopic, calcium salts. Changes in the moisture content of this product may change the density resulting in expansion and contraction of the material.

Polymerization: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Toxicological information is not available for Ladle Metallurgy Furnace Slag as sold/shipped. Following data is for the components.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD₅₀ (lethal animal dose, 50%) or LC₅₀ (lethal animal concentration, 50%)</td>
</tr>
<tr>
<td><strong>Iron Oxide:</strong> LD₅₀ = 10000 mg/kg (Oral/Rat)</td>
</tr>
<tr>
<td><strong>Iron:</strong> LD₅₀ = 1060 mg/kg (Oral/Rat)</td>
</tr>
<tr>
<td><strong>Chromium (Cr⁺⁶):</strong> LD₅₀ = 80 mg/kg (Oral/Rat)</td>
</tr>
<tr>
<td><strong>Copper Oxide:</strong> LD₅₀ = 470 mg/kg (Oral/Rat)</td>
</tr>
<tr>
<td><strong>Lead:</strong> LD₅₀ = 1400 mg/g (Oral/Dog)</td>
</tr>
<tr>
<td><strong>Calcium Oxide:</strong> LD₅₀ = 3059 mg/kg (Intraperitoneal/Mouse)</td>
</tr>
</tbody>
</table>

Skin (Dermal) Irritation.

**Iron, Copper Oxide:** Cause skin irritation. **Chromium (Cr⁺⁶):** Human Skin Sensitizer

**Copper:** Copper alloys may induce allergic contact dermatitis in susceptible individuals. **Nickel:** Slight irritation (rabbits). **Nickel Oxide:** Human Skin Sensitizer

Eye Irritation.

**Iron Oxide, Copper Oxide:** Irritating **Metallic particulates:** Irritation from mechanical abrasion

Carcinogenicity

**Ladle Metallurgy Furnace Slag** is not listed by IARC, National Toxicology Program (NTP), or OSHA as a carcinogen or as a reasonably anticipated to be a human carcinogen.

**Crystalline Silica (quartz or cristobalite):** IARC Group 1 carcinogen (Carcinogenic to Humans); NTP-K (Known to be Carcinogenic to Humans); and NIOSH-Ca (Potential Occupational Carcinogen).

**Chromium Metal and Chromium (III):** Chromium metal – IARC Group 3 Carcinogen (not classifiable as to their human carcinogenicity). Hexavalent chromium – IARC Group 1 Carcinogen (Carcinogenic to Humans).

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Manganese: Inhalation of metallic fumes and dusts – degenerative changes in human brain; behavioral changes in motor activity and muscle weakness. Prolonged inhalation exposure to manganese fumes/dusts is associated with “manganism,” a Parkinson-like syndrome characterized by a variety of neurological symptoms including muscle spasms, gait disturbances, tremors, and psychoses.

Iron Oxide: Inhalation of high concentrations of iron oxide fumes or dusts may result in the development of a benign pneumoconiosis, called Siderosis, which is observable as an X-ray change. No physical impairment of lung function has been associated with Siderosis.

Ecotoxicity (Aquatic & Terrestrial): No information is available for Ladle Metallurgy Furnace Slag as sold. However, components of the product have been found to be toxic to the environment.

Iron Oxide: LD_{50} >40 mg/L (Cloeon dipterum, mayfly); LC_{50} >10,000 mg/L (Gambusia affinis, western mosquitofish)

Chromium: LC_{50} 3.32 mg/L (Duttaphrynus melanostictus, Asian toad); LC_{50} 93.6 mg/L (Cyprinus carpio, common carp)

Manganese: LC_{50} 15.6 mg/L (Onchorhynchus mykiss, rainbow trout)

Aluminum Oxide: LC_{50} >500 mg/L (Daphina magna, water flea)

Zinc: EC_{50} 704 µg/L (P. promelas); EC_{50} >2000 µg/L (S. fontinalis); EC_{50} 220 µg/L (H. azteca)

Calcium Oxide: LC_{50} >159 mg/L (Invertebrates); 96 Hr LC_{50} 1070 mg/L (Cyprinus carpio, carp)

Crystalline Silica: LC_{50} carp >10,000 mg/L/72 hr.

Persistence and Degradability: No specific information is available for Ladle Metallurgy Furnace Slag as sold.

Bioaccumulative Potential: No specific information is available for Ladle Metallurgy Furnace Slag as sold.

Mobility in Soil: No specific information is available for Ladle Metallurgy Furnace Slag as sold. However, individual components of the product have been found to be absorbed by plants from soil. Metal dusts may migrate into soil and groundwater and be ingested by wildlife.

Radiation

This product is normally free of radiation.

12. ECOLOGICAL INFORMATION

Ecotoxicity (Aquatic & Terrestrial): No information is available for Ladle Metallurgy Furnace Slag as sold. However, components of the product have been found to be toxic to the environment.

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13. DISPOSAL CONSIDERATIONS

Please note that the following information pertains only to the unused, uncontaminated material.

RCRA CLASSIFICATION: Not considered a hazardous waste under RCRA 40 CFR 261. See table under REGULATORY INFORMATION section.


DISPOSAL RECOMMENDATIONS: Reuse and recycle whenever possible. Unusable material may be disposed of with normal waste.

14. TRANSPORT INFORMATION

DOT Proper Shipping Name - Not regulated
DOT Hazard Classification - Not regulated
UN/NA Number - Not applicable
DOT Packing Group - Not applicable
Labeling Requirements - Not applicable
Placards - Not applicable
DOt Hazardous Substance - Not applicable
DOt Marine Pollutant - Not applicable

15. REGULATORY INFORMATION

This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, dusts and fumes from this product may be hazardous.

California Proposition 65:
⚠️ WARNING: This product can expose you to chemicals including aluminum oxide and chromium which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Regulatory Lists
Some components of this product may be specifically listed by individual states; other product-specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

Toxic Substances Control Act (TSCA)
Components of this product are listed on the TSCA Inventory.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
Slag is not reportable, however, it contains hazardous substances that may be reportable if released in pieces with diameters less than or equal to 0.004 inches (RQ marked with a "*").
Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III
SECTION 311/312 HAZARD CATEGORIES: Immediate Health Effect, Delayed Health Effect
This product contains the following EPCRA Section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right – To – Know Act of 1986 (40 CFR 372):

SECTION 313 REPORTABLE INGREDIENTS:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Concentration (% by weight)</th>
<th>Reportable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>1344-28-1</td>
<td>0-30%</td>
<td>Yes – Greater than 1%</td>
</tr>
<tr>
<td>Lead</td>
<td>7439-92-1</td>
<td>0-0.01%</td>
<td>Yes – No de minimis level</td>
</tr>
</tbody>
</table>

Concentrations based on analytical data and process knowledge of typical products distributed by the facility.

16. OTHER INFORMATION

Web Sites with information about health effects from occupational exposure to the chemical substances contained in this product and associated engineering controls and personal protective equipment:

OSHA Website:
   http://www.osha.gov
   http://www.osha.gov/dsg/topics/silicacrystalline/index

NIOSH Website:
   http://www.cdc.gov.niosh
   http://www.cdc.gov/niosh/topics/silica

ACGIH Website:
   http://www.acgih.org

ATSDR Website:
   http://www.astdr.cdc.gov/toxprofiles

IARC Monograph concerning crystalline silica, Volume 100C:
   http://monographs.iarc.fr/ENG/Monographs/PDFs/index.php

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