



Material Safety Data Sheet

IRON-SILICON BRIQUETTE

SECTION I – PRODUCT IDENTIFICATION

Trade Name: IRON SILICON BRIQUETTE
 Chemical Formula: N/A
 Formula: Mixture
 Manufacturer's Name: Miller and Company LLC
 Address: 9700 W. Higgins Road
 Suite 1000
 Rosemont, IL 60018
 Phone: 847-696-2400
 Emergency Phone: Chemtrec 800-262-8200
 Prepared by: H. F. Linebarger
 Date: August 4, 2008

SECTION II – COMPOSITION

<i>Component</i>	<i>% by Weight</i>	<i>CAS No.</i>	<i>OSHA PEL¹ (mg/m³)</i>	<i>ACGIH TLV²</i>
Silicon	12 to 22	7440-21-3	10 5*	10
Iron	Balance (35 to 75)	7439-89-6	N/A	N/A
Portland Cement	10 to 15	65997-15-1	15 5*	10*
Carbon	3 to 6	64743-05-1	15 5*	10 3*
Manganese	0.1 to 3.0	7439-96-5	5	0.2
Alumina	0.1 to 2.0	1344-28-1	15 5*	2
Aluminum	0.1 to 1.2	7429-90-5	N/A	10
Nickel	0.05 to 0.20	7440-02-0	1	1.5*

- 1 Occupational Safety and Health Final Rule Permissible Exposure Limits
 2 American Conference of Governmental Industrial Hygienist Threshold Limit Values
 * Respirable fraction determined using industrial hygiene methods

SECTION III – PHYSICAL DATA

Appearance: Gray to Black
Size: Cylindrical / Oval / Brick / Slab
Approximate Weight: 3 lbs. to 35 lbs. depending on shape
Odor: None
Boiling Point: N/A
Melting Point: N/A
Vapor Pressure: N/A
Stability: Stable
Incompatible Materials: None
Neutralizing Chemicals: N/A

SECTION IV – HAZARDS IDENTIFICATION

This product does not represent a hazard to health, safety, or environment when handled and stored as advised. (Section VII).

SECTION V – HEALTH HAZARDS

Prolonged exposure of the skin to wet briquettes or to the dust from briquettes can cause irritation, dermatitis, or chemical burns.

Airborne dust may cause irritation of the eyes. Inhalation of the dust may cause throat or lung irritation.

The product contains crystalline silica. Prolonged or repeated inhalation of crystalline silica can cause silicosis, a serious disabling and fatal lung disease.

Warning: Harmful if inhaled or ingested. This product contains about 0.05 – 0.2% nickel in the metallic state. The International Agency for research on Cancer has determined that “nickel and certain nickel compounds” are “probably carcinogenic to humans” but the nickel compounds responsible for the effect have not been specified. The American Industrial Hygiene Association has also concluded that there is no epidemiological evidence of increased risk of respiratory cancer in the refining of oxide nickel ores or “in any other specifically nickel occupational exposures.”

SECTION VI – FIRE AND EXPLOSION HAZARDS

In the briquette form there are no unusual fire or explosion hazards.

Dust from the sawing or grinding of the product suspended in air can cause dust deflagrations. Avoiding sparks or ignition in areas of accumulated dust or high levels of airborne dust reduce the possibility.

Class D fire. Use dry powder, dry sand, or CO₂ to smother fire. Fire may be isolated and allowed to burn itself out.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Material should be kept away from strong acids or bases.

Avoid sawing, grinding, or actions that may generate dust or cause an accumulation of dust.

The material may be landfilled in accordance with federal, state, and local regulations.

Material is best stored in a clean dry area.

In case of spill, shoveling, sweeping, or vacuuming material is recommended.

SECTION VIII – EXPOSURE CONTROL / PERSONAL PROTECTION

Protective gloves are recommended.

Eye protection, eye flushing facilities are recommended.

Wear an appropriate respirator in accordance with 29CFR 1910.134 or CSA Standard Z94.4 – M1982, for dust exposure that may exceed exposure limits. If adequate ventilation is not possible, then a self contained breathing apparatus or supplied respirator is recommended.

SECTION IX – TRANSPORT INFORMATION

Hazard Class: Not Regulated
I.D. Number and Initials: Not Regulated
Packing Group: Not Regulated
Label(s): Not Regulated

SECTION X – ECOLOGICAL INFORMATION

Material is not classified as dangerous for the environment.

SECTION XI – REGULATOR INFORMATION

OSHA (Occupational Safety and Health Administration)
Hazardous by definition of hazardous communication standard (29CFR 1910.1200)

TSCA (Toxic Substance Control Act)
Components of this product are listed in the TSCA Inventory

CERCLA (Comprehensive Response Compensation and Liability Act)
Not listed under 40CFR 302.4

RCRA (Resource Conservation / Recovery Act)
Not listed as a hazardous waste

SARA TITLE III (Superfund Amendments and Reauthorization Act)
311/312 Hazard Categories
Immediate health, Delayed health, Fire
313. Reportable Ingredients:
None

SECTION XII – OTHER INFORMATION

Notice to reader: The information contained herein is accurate to the best of our knowledge. Miller and Company LLC (Miller) including its assigns and agents, assumes no liability whatsoever for the accuracy or completeness of the information provided. Final responsibility for determination of the suitability for use of any material, rests with the user. All material may present unknown properties or hazards and should be used with caution. Certain hazards are described herein however Miller does not guarantee these are the only hazards that exist and makes no warranty of any kind, expressed or implied, regarding the accuracy or completeness of the information provided.