

Material Safety Data Sheet

45% Silicon Briquettes

<u>SECTION I – PRODUCT IDENTIFICATION</u>

Trade Name: 45% Silicon Briquettes

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
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SECTION II – COMPOSITION

Component	% by Weight	CAS No.	$OSHA \ PEL^{1}$ (mg/m^{3})	$ACGIH\ TLV^2$ (mg/m^3)
Silicon (Si)	42-48	7440-21-3	10	10
			5*	
Silicon Carbide (SiC)	0-20	409-21-2	10	10
			5*	
Iron (Fe)	10-40	7439-89-6	N/A	N/A
Silica (SiO ₂)	0-20			
Amorphous		14808-60-7	5*	0.05*
Crystalline		14808-60-7	0.05*	0.025*
Alumina (Al ₂ O ₃)	0-15	1344-28-1	15	10
			5*	
Calcium Oxide	0-15	1305-78-8	5	2
Portland Cement	8-12	65997-15-1	15	10*
			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 (NIOSH)

SECTION III – PHYSICAL DATA

Appearance/Odor: Gray to Black Brick. No odor.

Boiling Point: Not Applicable Vapor Pressure: Not Applicable Melting Point: Not Applicable

Stability: Stable

Incompatible Materials: None

Neutralizing Chemicals: Not Applicable

<u>SECTION IV – HAZARDS IDENTIFICATION</u>

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

<u>SECTION V – HEALTH HAZARDS</u>

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.

Product should not be ingested. Chemical burns in the mouth or throat may result. If large amounts are swallowed, get prompt medical attention.

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.

<u>SECTION VIII – EXPOSURE CONTROL / PERSONAL PROTECTION</u>

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

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