

SAFETY DATA SHEET

1. Identification

Product identifier MGO Briquette 65 **Recommended use** For Industrial Use Only

Recommended restrictions Users should be informed of the potential presence of

respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as

required under applicable regulations.

Manufacturer/Supplier information

Company name: FRC Global

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Product Support/Technical Services

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2. Hazard(s) identification

Physical hazards Not classified.
Heath hazards Carcinogenicity

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Signal word Danger.

Hazard Statement May cause cancer.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until

all safety precautions have been read and understood.

Category 1A

Wear protective gloves/protective clothing/eye

protection.

Response If concerned: Get medical advice/attention.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazard(s) not otherwise Classified (HNOC)

None Known.

Supplemental information

Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

3. Composition/information on ingredients

Chemical Name	Common Name/Synonyms	CAS Number	%
Magnesium Oxide		1309-48-4	63-65
Silica	Quartz	14808-60-7	12 max
Calcium Oxide		1305-78-8	5%
Iron Oxide	Below reportable level	1309-37-1	
LOI (Lost of Ignition)	20-30% typical – 30% max		

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Dust may cause temporary irritation of the upper

respiratory tract and slight irritation of the eyes and nose. Call a

physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Irritation, drying, or chapping. Get

medical attention if irritation develops and persists.

Eye contact Do not rub your eyes. Rinse with water. Get medical attention if

irritation develops and persists.

Ingestion In large quantities and rarely, irritation, nausea, and gastrointestinal

upset. Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Dust may irritate the respiratory tract, skin, and eyes. Coughing.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep

the victim under observation. Symptoms may be delayed.

General information If concerned: Get medical advice. Ensure that medical personnel are

aware of the material(s) involved and take precautions to protect

themselves.

5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding

materials.

Unsuitable extinguishing media

Not available.

Specific hazards arising from the chemical

Not available.

Special protective equipment and precautions for firefighters

Not available.

Special Remarks on Fire Hazards

Not available.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from, and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA-approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Wear appropriate protective equipment and clothing during clean-up. Collect the spill using a vacuum cleaner with a HEPA filter. Place in a closed container. For waste disposal, see section 13 of the SDS.

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Environmental precautions

Avoid discharge into drains, water courses, or onto the

ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. It should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in the original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Magnesium Oxide	PEL	15 mg/m3	Total particulate.
(CAS 1309-48-4)			
Iron oxide	TWA	10mg/m3	Respirable fraction

(1309-37-1)						
Calcium Oxide	PEL	5 mg/m3				
(CAS 1305-78-8)						
US OSHA Table Z-3 (29	CFR 1910.1000)					
Components	Туре	Value	Form			
Quartz	TWA	0.3 mg/m3	Total dust.			
(CAS 14808-60-7)		0.1 mg/m3	Respirable.			
		2.4 mppcf	Respirable.			
US ACGIH Threshold Lir	nit Values					
Components	Туре	Value	Form			
Magnesium Oxide	TWA	10 mg/m3	Inhalable fraction.			
(CAS 1309-48-4)		 _				
Quartz	TWA	0.025mg/m3	Respirable fraction			
(CAS 14808-60-7)						
Calcium Oxide	TWA	2 mg/m3				
(CAS 1305-78-8)						
US NIOSH: Pocket Guide	e to Chemical Haz	ards				
Components	Туре	Value	Form			
Calcium Oxide	TWA	2 mg/m3				
(CAS 1305-78-8)						
Quartz (SiO2)	TWA	0.05 mg/m3	Respirable dust.			
(CAS 14808-60-7)						
Dielogical limit values	No biologi	aal aynasura limita yy	are noted for the			
Biological limit values	No biological exposure limits were noted for the ingredient(s).					
Exposure guidelines	•	Occupational exposure to nuisance dust (total and				
Expedit galacilles	•	respirable) and respirable crystalline silica should be				
		and controlled.				
Appropriate engineering						
		eral ventilation (typica	ally 10 air changes per			
		hour) should be used. Ventilation rates should be matched				
	to condition	to conditions. If applicable, use process enclosures, local				
	exhaust ve	entilation, or other eng	gineering controls to			
	maintain a	irborne levels below r	ecommended exposure			
	limits. If ex	posure limits have no	t been established,			
	maintain a	irborne levels to an ac	cceptable level. If			
	_	ig measures are not su				
		tions of dust particula				
	Occupatio	nal Exposure Limit (O	EL), suitable respiratory			
	and the second s					

Individual protection measures, such as personal protective equipment

recommended exposure limits.

protection must be worn. If material is ground, cut, or used in any operation that may generate dust, use appropriate local exhaust ventilation to keep exposures below the

Eye/face protection Chemical respirator with organic vapor cartridge, full

facepiece, dust and mist filter.

Skin protection

Hand protectionOtherWear appropriate chemical-resistant gloves.Use of an impervious apron is recommended.

Respiratory protection Use a NIOSH/MSHA-approved respirator if there is a risk of

exposure to dust/fume at levels exceeding the exposure

limits

Thermal hazards Wear appropriate thermal protective clothing, when

necessary.









General Hygiene Considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Solid.

Form Granule or powder.

Color Varies.
Odor Odorless
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling range

Not available.

Flash point

Evaporation rate

Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available. Not available. Not available.

Vapor density Relative Density

Vapor pressure

Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature
Decomposition temperature

Not available. Not available.

Viscosity

Not available.

10. Stability and reactivity

Reactivity Reacts vigorously with halogens and strong acids.

Chemical stability Unstable under the following conditions, easily absorbs

humidity and carbon dioxide when in contact with the

atmosphere.

Possibility of hazardous reactions

Incompatible materials

Reacts violently with interhalogens.

Conditions to avoid Contact with incompatible materials.

Interhalogens, sublimed sulfur, and magnesium or

aluminum powder. Powerful oxidizers. Chlorine.

Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to

industrial application exposure. Contact your sales

representative for clarification.

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Dust may irritate the respiratory system. Prolonged

inhalation may be harmful.

Skin contact Dust or powder may irritate the skin.

Eye contact Dust may irritate the eyes.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical, and toxicological characteristics

Dust may cause mechanical irritation to the eyes and skin. Ingestion may cause transient irritation of the throat, stomach, and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion, and

chest tightness.

Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Direct contact with the eyes may cause temporary

irritation.

Respiratory or skin sensitization

Respiratory sensitization

May cause respiratory problems.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data is available to indicate product or any

components present at greater than 0.1% are mutagenic or

genotoxic.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicate dust, and organic fibers, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (SiO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

US National Toxicology Program (NTP) Report on Carcinogens

Quartz (SiO2) (CAS 14808-60-7) Known To Be Human Carcinogen.

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Developmental effects

Quartz (SiO2) 0 Developmental effects - EU category Quartz (SiO2) 0 **Embryotoxicity** Quartz (SiO2) 0

Reproductively Quartz (SiO2) 0

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful. Prolonged exposure

may cause chronic effects.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on

the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bio-accumulative potential

No data available.

Mobility in soil
Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are

expected from this component.

13. Disposal considerations

Disposal instructionsThis product, in its present state, when discarded or

disposed of, is not hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA

criteria for hazardous waste.

Hazardous waste code Since this product is used in several industries, no Waste

Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste

disposal partner or the responsible authority.

Waste from residues / unused products

Not available.

Contaminated packaging Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Packaging Group Not classified.

Bulk Transport Not applicable.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

All chemical substances in this product are listed on the TSCA chemical substance inventory where required.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Chemical

No.

SARA 313 (TRI reporting)

Chemical Name CAS number % by wt.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not Regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR

68.130) Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

US California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US Massachusetts RTK - Substance List

Magnesium oxide (CAS 1309-48-4) Quartz (SiO2) (CAS 14808-60-7) Calcium Oxide (CAS 1305-78-8)

US New Jersey Worker and Community Right-to-Know Act

Magnesium oxide (CAS 1309-48-4) Quartz (SiO2) (CAS 14808-60-7) Calcium Oxide (CAS 1305-78-8)

US Pennsylvania Worker and Community Right-to-Know Law

Magnesium oxide (CAS 1309-48-4) Quartz (SiO2) (CAS 14808-60-7) Calcium Oxide (CAS 1305-78-8)

US Rhode Island RTK

US California Proposition 65

This product contains a chemical known to the State of California to cause cancer.

US California Proposition 65 - CRT: Listed date/Carcinogenic substance
Quartz (SiO2) (CAS 14808-60-7) Listed: October 1, 1988

16. Other information, including date of preparation or last revision

This information is supplied to be informative and to alert the user of the material. The ultimate compliance with federal, state, and/or local regulations concerning the use of this material, or compliance with respect to product liability, rests solely upon the purchaser thereof.

Prepared by: FRC Global Date: October 2020

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End of Safety Data Sheet