

SAFETY DATA SHEET

1. Identification Product identifier Recommended use

Magfill® For Industrial Use Only Refractory Sand None

Recommended restrictions

Manufacturer/Supplier information

C Company name: FRC Global Address: 1000 N. West St. Suite 1200 #3008 Wilmington, DE 19801 Product Support/Technical Services Phone: (514) 931-5711 Website www.FRCglobal.com

Emergency telephone number: Corporate Office: (514) 931-5711 Technical Services: (514) 931-5711 Contact E-Mail: <u>LadleDr@FRCglobal.com</u>

2. Hazard(s) identification

Classified hazards	This item is defined as an article per OSHA (29 CFR 1910.1200) and is therefore exempt from labeling. A Safety Data Sheet is available. This item is not hazardous per OSHA 29 CFR 1910.1200(c). However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. May cause respiratory irritation, lung injury, or cancer by inhalation. Limit skin contact. Wash hands after handling. Dispose of waste and residues in accordance with local authority requirements. Wear protective gloves/protective clothing/eye protection.
Label elements	This item is defined as an article per OSHA (29 CFR 1910.1200) and is therefore exempt from labeling. A Safety
	Data Sheet is available. This item is not hazardous per
	OSHA 29 CFR 1910.1200(c). However, individual customer
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	gloves/protective clothing/eye protection.
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Hazard(s) not otherwise classified (HNOC)

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3. Composition/information on ingredients

Chemical Name	Common Name/Synonyms	CAS Number	%
Magnesium Silicate			
MgO	Magnesium Oxide	1309-48-4	*
SiO ₂ **	Amorphous silica	112926-00-8	*
Fe ₂ O ₃	Iron (III) Oxide	1309-37-1	*
Al ₂ O ₃	Aluminum Oxide (Non-Fibrous)	1344-28-1	*
CaO	Calcium oxide	1308-38-9	*
Others			*

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

** Linked with magnesium in silicate form with less than 1 % free silica.

Common Name: Synthetic Olivine

CAS Number: RN 12 44 003-26-6

Chemical name of impurities, solvents, and/or additives:

None

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/eff	ects, acute and delayed
	Direct contact with the eyes may cause temporary
	irritation.
Indication of immediate medic	al 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.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

No specific protection equipment is needed in case of such a release.

Methods and materials for containment and cleaning up

Environmental precautions Avoid discharge into drains, water courses, or onto the ground.

7. Handling and storage

Precautions for safe handling	Keep the formation of airborne dust to a minimum. Provide
	appropriate exhaust ventilation at places where dust is
	formed. Do not breathe dust. Wear appropriate personal
	protective equipment. Observe good industrial hygiene
	practices.

Conditions for safe storage, including any incompatibilities

Store in a dry location.

8. Exposure controls/personal protection

Occupational exposure limits

Threshold limit values under regulation (S-2.1,r.15)

	• •		
Components	Туре	Value	Form
Magfill		10mg/m3	Total dust
		5 mg/m3	Respirable fraction.
		0,	•

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

Components	Туре	Value	Form
Iron oxide fume		10mg/m3	Total dust
(CAS 1309-37-1)			
alpha-Alumina		15mg/m3	Respirable fraction.
(CAS 1344-28-1)		5mg/m3	Total dust.

US OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form	
Silicon Dioxide, Amorphous	TWA	0.8mg/m3		
(CAS 112926-00-8)		20 mppcf		

Biological limit values	No biological exposure limits were noted for the ingredient(s).	
Appropriate engineering controls		
	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.	
Individual protection measures	s, such as personal protective equipment	
Eye/face protection	If contact is likely, safety glasses with side shields are recommended.	
Skin protection		
Hand protection	Wear appropriate protective gloves.	
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	Solid.
Color	Varies from light to dark brown.
Odor	Not available.
Odor threshold	Not available.
рН	8.4
Melting point/freezing point	<1700°C
Initial boiling point and boiling	range
	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lowe	er (%)
	Not available.
Flammability limit - upp	er (%)
	Not available.
Explosive limit - lower (S	%)
	Not available.
Explosive limit - upper (%)

	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Bulk density sand products Solubility(ies)	1.36 – 1.4 g / cm ³ – 84.55 – 87.80 lbs / ft ³	
Solubility (water)	Insoluble in water.	
Partition coefficient (n-octano	· ·	
	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
10. Stability and reactivi	ty	
Reactivity	The product is stable and non-reactive under normal	
-	conditions of use, storage, and transport.	
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous reaction	ons	
	No dangerous reaction is known under conditions of	
	normal use.	
Conditions to avoid	None known.	
Incompatible materials	None known.	
Hazardous decomposition proc		
	No hazardous decomposition products are known.	
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Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity -	•
Specific target organ toxicity -	
Aspiration hazard	Not an aspiration hazard.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous.
Persistence and degradability	No data is available on the degradability of this product.
Bio-accumulative potential	No data available.
Mobility in soil	No data available.
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 instructions	This 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	Not applicable.	
Waste from residues / unused products		
	Not available.	
Contaminated packaging	Not available.	

14. Transport information

14 7 4	Not regulated as dangerous goods.
ΙΑΤΑ	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Packaging Bulk Transport	In 1200 kg big bag or 25 kg bag. Possible.

15. Regulatory information

No specific regulation in the fields of occupational health and safety and/or environment apply.

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