

SAFETY DATA SHEET

1. Identification

Product identifier Graphite Block - All Grades Recommended use For Industrial Use Only

Blast Furnace Refractories

Recommended restrictions None Known

Manufacturer/Supplier information

FRC Global Company name: Address: 1000 N. West St.

Suite 1200 #3008

Wilmington, DE 19801

Product Support/Technical Services

Phone: (514) 931-5711

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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. Sharp edges may cut the skin. Wear protective gloves/protective clothing/eye protection.

None Classified Physical hazards Health hazards None Classified None Classified **Environmental hazards**

Label elements

Hazard Symbol None Signal Word None

Hazard Statement This substance does not meet the criteria for classification

Precautionary Statements

Observe good industrial hygiene practices Prevention

Wash hands after handling. Response

Storage Store away from incompatible materials

Disposal Dispose of waste and residues in accordance with local authority

requirements.

MATERIAL NAME: CARBON BLOCKS - ALL GRADES

Hazard(s) not otherwise classified (HNOC) None Known. Supplemental Information None

3. Composition/information on ingredients

Chemical Name	Common Name/Synonyms	CAS Number	%
Carbon Graphite		7782-42-5	>99

^{*}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. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and

persists.

Skin abrasion Apply bandages and standard first aid measures. Get medical attention if

irritation develops or persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth with water. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation. Coughing.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep 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
Unsuitable extinguishing media
Unsuitable extinguishing media
Specific hazards arising from the chemical

Special protective againment

Solf contained breathing apparatus and full protective elething must

Special protective equipment Self-contained breathing apparatus and full protective clothing must be

and precautions for firefighters worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

The product is immiscible with water and will sediment in water systems. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground

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7. Handling and storage

Precautions for safe handling

Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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

8. Exposure controls/personal protection

Occupational exposure limits

U.S. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Carbon Graphite	TWA	15 mppcf	Respirable fraction.
(CAS 7782-42-5)			

Biological limit values No biological exposure limits 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, such as personal protective equipment

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 Black
Odor Odorless.
Odor threshold Not available.
pH Not available.

Melting point/freezing point <2760°C / Not applicable.

Initial boiling point and boiling range Not available. Flash point Not available.

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Evaporation rate Not available. Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)
Flammability limit - upper (%)
Explosive limit - lower (%)
Explosive limit - upper (%)
Not available.
Not available.
Vapor pressure
Not available.

Vapor density

Bulk density sand products

Not available.

Not available.

Not available.

Solubility(ies)

Solubility (water) Insoluble in water

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

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 reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials

Incompatible materials Chlorine.

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

InhalationNo long term effect on respiratory system expectedSkin contactNo adverse effects due to skin contact are expectedEye contactDirect contact with eyes may cause temporary irritation

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics:

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results	
Carbon Graphite			
(CAS 7782-42-5)			
Oral: LD50	Rat	>10000 mg/kg	

Skin corrosion/irritation

Serious eye damage/eye irritation Respiratory or skin sensitization Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

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Respiratory sensitization Skin sensitization Germ cell mutagenicity

Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive toxicity

This product is not expected to cause reproductive or

developmental effects.

Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Not classified. Not classified.

Aspiration hazard

Not an aspiration hazard.

12. Ecological information

Ecotoxicity Persistence and degradability

Bio accumulative potential

Mobility in soil

Other adverse effects

The product is not classified as environmentally hazardous. No data is available on the degradability of this product. No data available.

The product is insoluble in water.

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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local Disposal Regulations

Dispose in accordance with all applicable regulations

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Bulk Transport

Not Applicable.

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15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. 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 - No 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)

Not regulated.

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

Carbon Graphite (CAS 7782-42-5)

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

Carbon Graphite (CAS 7782-42-5))

US. Pennsylvania Worker and Community Right-to-Know Law

Carbon Graphite (CAS 7782-42-5)

DATE REVISED: FEBUARY 2021

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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 respects to products liability, rest solely upon the purchaser thereof.

Prepared by: **FRC Global** Date: February 2021

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End of Safety Data Sheet

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