



## SAFETY DATA SHEET

### 1. Identification

Product identifier	Graphite Electrode – All Grades
Recommended use	For Industrial Use Only Electric furnace steel production
Recommended restrictions	None Known

#### Manufacturer/Supplier information

Company name:	Fedmet Resources Corporation
Address:	1000 N. West St. Suite 1200 #889 Wilmington, DE 19801
Product Support/Technical Services Phone:	(514) 931-5711
Website	<a href="http://www.fedmet.com">www.fedmet.com</a>

Emergency telephone number: Corporate Office: (514)931-5711  
Technical Services: (514)931-5711  
Contact E-Mail: [ladledr@fedmet.com](mailto:ladledr@fedmet.com)

### 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

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

#### Label elements

Hazard Symbol	None
Signal Word	None
Hazard Statement	This substance does not meet the criteria for classification
Precautionary Statements	
Prevention	Observe good industrial hygiene practices
Response	Wash hands after handling.
Storage	Store away from incompatible materials
Disposal	Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

None Known.

Supplemental Information

None

### 3. Composition/information on ingredients

Chemical Name	Common Name/Synonyms	CAS Number	%
<b>Carbon Graphite</b>		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.
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	Water Fog. Foam. Dry Chemical Power. Carbon Dioxide (CO2)
Unsuitable extinguishing media	Do not use water jet as an extinguisher, it could spread fire.
Specific hazards arising from the chemical	During Fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be 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.

## 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

<i>Components</i>	<i>Type</i>	<i>Value</i>	<i>Form</i>
<b>Carbon Graphite (CAS 7782-42-5)</b>	TWA	15 mppcf	Respirable fraction.

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

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

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.

Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
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.
Vapor pressure	Not available.
Vapor density	Not available.
Bulk density sand products	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	
Inhalation	No long term effect on respiratory system expected
Skin contact	No adverse effects due to skin contact are expected
Eye contact	Direct 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	

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

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

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

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

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

The product is insoluble in water.

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

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.

## 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)

<b>Hazard categories</b>	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)

## **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.

**Reasons for Revision:** Converted MSDS to SDS.  
**Prepared by:** Fedmet Resources Corporation  
**Date:** February 2018

DISCLAIMER: Reasonable care has been taken in the preparation of the information provided, and believed to be correct as of the issue date. However, Fedmet Resources Corporation makes no representation or warranties, and assumes no responsibility as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purpose prior to use. Fedmet Resources Corporation will not be responsible for any damages of any nature directly or indirectly whatsoever resulting from the use of, reliance upon, or the misuse of the information contained herein.

**End of Safety Data Sheet**