

15117 Washington Highway
P. O. Box 1055 Ashland VA

Phone: (804) 227-3381
Fax: (804) 227-3404

CHEMTREC: (800) 424-9300
Poison Center: (800) 562-8236

Safety Data Sheet

Section 1: Product and Company Information

Product Name: Carbon (Graphite)
Company: Fine Metals Corporation
15117 Washington Hwy
Ashland, VA 23005

For more information call: 1-804-227-3381
(Monday - Friday 9-4:30)

In case of emergency: Transportation (Chemtrec) 1-800-424-9300
Poison Center: 1-800-562-8236
(24 hours/day, 7 days/week)

Section 2: HAZARD IDENTIFICATION

This material is not considered hazardous and is not classified under GHS

Emergency Overview

Emergency This material is not considered hazardous in bulk form. Powdered material may form explosive dust-air mixtures.

Hazard Statements: None

Precautionary Statements:

Prevention: None

Response: None

Appearance/Form:

Form: Solid

Color: gray to black solid

Odor: Odorless

Hazard Summary: Considered non-hazardous as sold. If ground to sub-micron sizes, graphite may ignite spontaneously in air.

Acute Health Effects

Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: Low ingestion hazard as sold. May be harmful if swallowed.

Inhalation: May cause respiratory irritation.

Chronic Exposure: Chronic inhalation exposure to natural graphite/carbon is associated with the development of pneumoconiosis.

Aggravated Medical Conditions: Persons with pre-existing respiratory or cardiopulmonary problems may be more susceptible to the effects of this substance.

Carcinogenicity: Not listed as a human carcinogen

Section 3: Composition/Information on Ingredients

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Chemical Name	CAS-No.	Reach #
Carbon	7782-42-5	Not available
		Not available
		100 wt%

Section 4: FIRST AID MEASURES

Eye Contact: Immediately flush with water for at least 15 minutes. Call a physician.
Skin Contact: Wash contaminated area with plenty of water. Call a physician if irritation develops or persists.
Inhalation: Remove to fresh air; if breathing difficult, give oxygen. Call a physician.
Ingestion: Treat symptomatically and supportively.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing Media: Use a Class D dry powder extinguisher, dry sand, dolomite, or soda ash.
Unsuitable extinguishing media: Do not use water.
Specific hazards during firefighting: Dusts at sufficient concentrations can form explosive mixtures with air.

Special protective equipment for firefighters: In the event of a fire, wear full protective clothing and NIOSH - approved self-contained breathing apparatus with full faceplate operated in the pressure demand or other positive pressure mode.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid breathing (dust, vapor, mist, gas). Practice good chemical hygiene during and after use.
Environmental Precautions: Do not release to the environment.
Methods for Cleaning Up: Clean up spills immediately. Ventilate area of leak or spill. Wear appropriate personal protective equipment. Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

Section 7: HANDLING AND STORAGE

Handling: Avoid formation of dust. Use engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air. Practice good chemical hygiene.
Storage: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation or other means to maintain employee exposure as far below limits as possible

Component	Component Exposure Limits	
	Location	Value
Carbon	ACGIH TWA	2
	NIOSH REL TWA	2.5
	OSHA OEL TWA (Total)	15
	OSHA OEL TWA	5
	Europe TWA	2
	Denmark TWA (Respirable)	2.5
	Denmark STEL (Respirable)	5
	Germany TWA (Inhalable)	4
	Germany TWA (Respirable)	1.5
	Australia, New Zealand TWA	3
Singapore TWA	2	

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UK WEL TWA (Respirable) 4

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: Not normally needed. If ventilation is inadequate and this material is handled at elevated temperatures or dust/fumes/mists are generated a NIOSH/MSHA approved air purifying respirator may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits..

Eye/Face: Wear safety glasses or goggles as appropriate to the task performed.

Skin Protection: Protective clothing, including boots, gloves, lab coat, apron or coveralls as appropriate to prevent skin contact.

Work Hygienic Practices: Practice good chemical hygiene during and after use.

Comments: None

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Odor: Odorless

Color: Dark grey to black

Melting Point: 3650° C (6602° F)

Boiling Point: Sublimes

Vapor Pressure: NA

Vapor Density (air = 1): NA

Evaporation Rate: NA

Solubility In Water: Insoluble

Specific Gravity (water = 1): 2.20-2.35

Atomic Weight: 12.01

% Volatility By Volume: No information available

Density: 2.2-2.35

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage

Incompatible Materials: Potassium, halogens

Hazardous Decomposition Products: Carbon oxides

Products:

Possibility of Hazardous Reactions: No information available

Reactions:

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: No LD50/LC50 information found relating to normal routes of occupational exposure.

Chronic Toxicity: No information found

Reproductive Toxicity: Not available

Mutagenicity: Not available

Carcinogenicity: Not listed

Other: None

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available

Persistence/Degradability: Not available

Bioaccumulation/Accumulation: Not available

Mobility in Environment: Not available

Section 13: DISPOSAL CONSIDERATIONS

Waste Classification: Recycling is disposal method of choice.

All disposal activities must comply with federal, state, provincial and local regulations.

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Section 14: TRANSPORT INFORMATION

US DOT (ground): Not regulated
ICAO/IATA (air): Not regulated
IMO/IMDG (water): Not regulated
Special Provisions: Not regulated

Section 15: REGULATORY INFORMATION

UNITED STATES

SARA Title III (Superfund Amendments and Reauthorization Act) 313 Reportable Ingredients: No

TSCA (Toxic Substance Control Act) status: Not regulated

STATE REGULATIONS

The following components appear in one or more of the following states hazardous substances

Component	CAS #	CA	MA	MN	NJ
Carbon	7782-42-5	No	No	Yes	Yes

California Proposition 65: This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

CANADA

WHMIS (Workplace Hazardous Materials Information System): Not regulated

Domestic Substance List (Inventory): All components of this product are included in inventory, exempt or notified

GENERAL COMMENTS

None

Section 16: OTHER INFORMATION

Information Contact: sds@finemetalscorp.com

Issue Date: 8/21/2005

Revision Date: 1/1/2015

HMIS®(11)		NFPA	
Health:	0		
Flammability:	0	0	
Reactivity:	0	0	0
PPE:	C		

Ratings range from 0 (no hazard) to 4 (severe hazard)

The information contained in this SDS is believed to be correct, but is not all inclusive and shall be used only as a guide. Fine Metals Corporation shall not be liable for any damage resulting from handling or from contact with the product listed in the SDS. Any comments or questions should be directed to:

Safety Manager
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15117 Washington Highway
P O Box 1055
Ashland VA 23005
(804) 227-3381