

Safety Data Sheet

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Graphite

Section 1 - Chemical Product and Company Identification

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Product/Chemical Name: Graphite**Chemical Formula:** C**CAS Number:** 7782-42-5**Other Designations:** Black lead; crystallized carbon; mineral carbon; plumbago; CI 77265**Emergency Telephone:** 1-888-255-3924 (Chem Tel domestic); 1-813-248-0585 (Chem Tel international)

Section 2 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

HMIS	
H	1
F	1
R	0
PPE†	
†Sec. 8	

Potential Health Effects

Target Organs: Lungs**Primary Entry Routes:** Inhalation of dust

HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Signal word: None**Hazard Statement(s):** None**Pictogram(s) or Symbol(s):** None**Precautionary Statement(s):** None**Hazards not otherwise classified (HNOC) or not covered by GHS - none**

Acute Effects

Eye: Causes eye irritation. May cause conjunctivitis.**Skin:** May cause skin irritation.**Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation.**Inhalation:** Dust is irritating to the respiratory tract.**Chronic:** Prolonged exposure to respirable crystalline quartz may cause delayed lung injury/fibrosis (silicosis).**Carcinogenicity:** IARC, NTP, ACGIH, OSHA and CA Prop 65 do not list Graphite as a carcinogen.

Section 3 - Composition / Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7782-42-5	Graphite	>99	231-955-3

Appearance/General Info:

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Graphite	2 mg/m ³ (respirable fraction , all forms except graphite fibers)	2.5 mg/m ³ (respirable fraction) 1250 mg/m ³ IDLH	None listed

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: If swallowed, get medical aid immediately. Only induce vomiting if directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician: Treat symptomatically and supportively.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures

Flash Point: Not applicable

Autoignition Temperature: 730 °C (1,346.00 °F)

LEL: vol%

UEL: vol %

Flammability Classification: Can be easily ignited and burns vigorously.

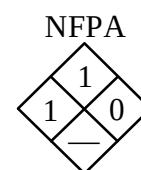
Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Unusual Fire or Explosion Hazards: Dust can be an explosion hazard when exposed to heat or flame.

Hazardous Combustion Products: Irritating and toxic fumes and gases.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Eliminate all ignition sources. Ventilate area.

Small Spills: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section.

Large Spills

Containment: For large spills, dike far ahead of spill for later disposal. Do not release into sewers or waterways.

Cleanup: Avoid generating dusty conditions. Provide ventilation.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage Requirements: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: Powder

Color: green, blue, steel gray or black

Odor: odorless

pH: Not available

Vapor Pressure: Negligible.

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not applicable.

Boiling Point: 4200 °C (7,592.00 °F)

Freezing/Melting Point: 3652.2-3697.2 °C

Decomposition Temperature: Not available

Solubility in water: Insoluble in water.

Specific Gravity/Density: 2.09-2.25

Molecular Formula: C

Molecular Weight: 12

Section 10 - Stability and Reactivity

Stability: Graphite is stable at room temperature in closed container under normal storage and handling conditions.

Polymerization: Hazardous polymerization has not been reported.

Chemical Incompatibilities: Incompatible materials, ignition sources, dust generation, moisture, excess heat.

Conditions to Avoid: Incompatible materials, dust generation, excess heat, strong oxidants.

Hazardous Decomposition Products: Thermal oxidative decomposition of Graphite can produce carbon dioxide and carbon monoxide gases.

Section 11- Toxicological Information

Toxicity Data:*

Draize test, rabbit, eye:

Oral, rat: LD50 >2000 mg/kg;

Skin, rat: LD50 mg/kg;

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Neurotoxicity: No information available.

Mutagenicity: No information available.

* See NIOSH, RTECS(MD9659600), for additional toxicity data.

Section 12 - Ecological Information

Ecotoxicity: No data available.

Environmental:

Physical: No information found.

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements:

Container Cleaning and Disposal:

Section 14 - Transport Information

Not regulated for transportation

US DOT(49 CFR 172.101): PSN: Hazard Class: UN Number: Packing Group:	IATA PSN: Hazard Class: UN Number: Packing Group:
IDG PSN: Hazard Class: UN Number: Packing Group:	IMDG/IMO PSN: Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

REGULATORY INFORMATION

US Federal

TSCA

CAS# 7782-42-5 is listed on the TSCA Inventory.

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

Graphite

Pennsylvania Right To Know Components

Graphite

New Jersey Right To Know Components

Graphite

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/37 Irritating to eyes and respiratory system.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 7782-42-5: 0

Canada

CAS# 7782-42-5 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7782-42-5 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

Disclaimer: All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable: However, it is the users responsibility to determine the safety, toxicity and suitability for its own use of this product. WEGO CHEMICAL GROUP DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THIS PRODUCT.

