



## 1. Identification

### 1.1. Product identifier

**Product Identity** Graphite Powder  
**Alternate Names** Graphite Powder

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** Laboratory chemicals.

### 1.3. Details of the supplier of the safety data sheet

**Company** Gotion Inc.  
8001 E Pleasant Valley Rd. Independence, OH  
44131

### Emergency

**24-hour Emergency Telephone No.** Chemtrec : Domestic 800 424 9300  
International 1 703 527 3887

**Customer Service: Gotion Inc.** (216) 867- 1040

## 2. Hazard(s) identification

### Emergency Overview

#### 2.1. Classification of the substance or mixture

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

THIS CHEMICAL IS NOT CONSIDERED HAZARDOUS BY THE 2012 OSHA Hazardous communication standard (29 CFR 1910.1200)

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

### Warning

#### [Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P280 Wear protective gloves / eye protection / face protection.



**[Response]:**

P370 In case of fire:

P378 Use alcohol resistant foam, CO<sub>2</sub>, powder, water spray for extinction. Do not use water jet.

**[Storage]:**

No GHS storage statements

**[Disposal]:**

No GHS disposal statements

### 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Graphite CAS No.: 0007782-42-5	100	Not Classified	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

### Section 4. First aid measures

#### 4.1. Description of first aid measures

##### General

##### Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.

##### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

##### Skin

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

##### Ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

#### 4.2. Most important symptoms and effects, both acute and delayed

##### Overview

No available information No available information Check section 2.2 (GHS Label Elements) for further details.



## Section 5. Fire-fighting measures

### 5.1. Extinguishing media

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**Explosion:** Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

### 5.3. Advice for fire-fighters

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

Dust explosions are possible.

**ERG Guide No.**

## Section 6. Accidental release measures

### 6.1. Personal precautions, protective equipment, and emergency procedures

Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Non sparking tools should be used.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet.

Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.2. Environmental precautions

**Explosion:** Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

### 6.3. Methods and material for containment and cleaning up

Sweep or vacuum to clean up spills. Do not use any procedure which causes dispersion of dust into the air if any possibility of ignition exists. Dispose of in accordance with local, state, and federal regulations.

## Section 7. Handling and storage



**7.1. Precautions for safe handling**

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Avoid dust generation when handling product to minimize dust explosion potential.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

**7.2. Conditions for safe storage, including any incompatibilities**

Keep container tightly closed.

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Incompatible materials: No available information

Check section 2.2 (GHS Label Elements) for further details. - [Storage]:

**7.3. Specific end use(s)**

No available information

**Section 8. Exposure controls and personal protection**

**8.1. Control parameters**

**Exposure**

CAS No.	Ingredient	Source	Value
0007782-42-5	Graphite	OSHA	TWA 15 mg/m <sup>3</sup> TWA 15 mppcf
		ACGIH	TWA: 2 mg/m <sup>3</sup>
		NIOSH	TWA 2.5 mg/m <sup>3</sup> (resp)
		Supplier	No Established Limit

The exposure limits for nuisance dust are OSHA PEL: 15 mg/m<sup>3</sup> (50 mppcf\*) TWA, ACGIH 10 mg/m<sup>3</sup>.

**8.2. Exposure controls**

**Respiratory** No protective equipment is needed under normal use conditions. Lightweight protective clothing. Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

**Eyes** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin** Wear appropriate protective gloves and clothing to prevent skin exposure.



**Engineering Controls** It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

**Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

## Section 9. Physical and chemical properties

<b>Appearance</b>	Greenish Blue Solid
<b>Odor</b>	Odorless
<b>Odor threshold</b>	No available information
<b>pH</b>	Not Measured
<b>Melting point / freezing point</b>	3652.2 - 3697.2 °C / 6606 - 6687 °F
<b>Initial boiling point and boiling range</b>	Not Measured
<b>Flash Point</b>	Not flammable so no flashpoint
<b>Evaporation rate (Ether = 1)</b>	Not Measured
<b>Flammability (solid, gas)</b>	No available information
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not Measured <b>Upper Explosive Limit:</b> Not Measured
<b>Vapor pressure (Pa)</b>	Negligible
<b>Vapor Density</b>	Not Applicable
<b>Specific Gravity</b>	2.09 - 2.25
<b>Solubility in Water</b>	Insoluble in Water.
<b>Partition coefficient n-octanol/water (Log Kow)</b>	No available information
<b>Auto-ignition temperature</b>	730 °C / 1346 °F
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	Not applicable

### Particle Characteristics

#### 9.2. Other information

No other relevant information.

## Section 10. Stability and reactivity



**10.1. Reactivity**

Risk of ignition or formation of inflammable gases or vapors with:

Fluorine

Alkaline earth metals

**10.2. Chemical stability**

Stable under normal circumstances.

**10.3. Possibility of hazardous reactions**

No available information

**10.4. Conditions to avoid**

No available information

**10.5. Incompatible materials**

No available information

**10.6. Hazardous decomposition products**

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**Section 11. Toxicological information**

**Acute toxicity**

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Graphite - (7782-42-5)	> 2,000.000000, Rat - Category: 4	No data available.	No data available.	> 2,000.000000, Rat - Category: NA	No data available.

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
0007782-42-5	Graphite	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
Classification		Category	Hazard Description
Acute toxicity (oral)		---	Not Applicable
Acute toxicity (dermal)		---	Not Applicable
Acute toxicity (inhalation)		---	Not Applicable



Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

**Section 12. Ecological information**

**12.1. Toxicity**

No additional information provided for this product. See Section 3 for chemical specific data.

**Aquatic Ecotoxicity**

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Graphite - (7782-42-5)	100.000000, Danio rerio	> 100.000000, Daphnia magna	> 100.000000, Pseudokirchnerella subcapitata

**12.2. Persistence and degradability**

There is no data available on the preparation itself.

**12.3. Bio accumulative potential**

No available information

**12.4. Mobility in soil**

No available information

**12.5. Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

No available information

**Section 13. Disposal considerations**

**13.1. Waste treatment methods**

Observe all federal, state, and local regulations when disposing of this substance.



**Section 14. Transport information**

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>14.1. UN number</b>			
<b>14.2. UN proper shipping name</b>	NOT REGULATED	NOT REGULATED	NOT REGULATED
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b>	<b>IMDG:</b>	<b>Air Class:</b>
<b>14.4. Packing group</b>			
<b>14.5. Environmental hazards</b>	Marine Pollutant: No;		
<b>14.6. Special precautions for user</b>	No available information		

**Section 15. Regulatory information**

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act ( TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.





**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

<b>Section 16. Other information</b>
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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

The full text of the phrases appearing in section 3 is:

Not Applicable

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