

www.laballey.com 512-668-9918 Graphite Powder

# **SAFETY DATA SHEET**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Graphite

CAS number 7782-42-5

Synonyms Mineral carbon; Crystallized carbon; Black lead

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

Identified uses Laboratory chemicals.

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

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

## 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

# 2.2 GHS Label elements, including precautionary statements

Pictogram None required.

Laballey.com Page 1 of 9

Signal Word None required.

Hazard statements None required.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Graphite	Mineral carbon; Crystallized carbon; Black lead	7782-42-5	> 98%

#### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

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

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Get

medical attention

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed 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

None reasonably foreseeable.

## 4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Water spray, carbon dioxide (CO2), dry chemical,

alcohol-resistant foam.

Laballey.com Page 2 of 9

Unsuitable extinguishing media

No information available.

# 5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

# 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature** 730 °C / 1346 °F

**Explosion limits** 

Upper No information available.Lower No information available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

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

## 6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

## **SECTION 7: Handling and storage**

Laballey.com Page 3 of 9

# 7.1 Precautions for safe handling

## Precautions on 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.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

## Incompatibilities

No information available.

## **SECTION 8: Exposure controls/personal protection**

# 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value
Graphite	TWA	5 mg/m3

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value
Graphite	TWA	2 mg/m3

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Туре	Value
Graphite	IDHL	1250 mg/m3
	TWA	10 mg/m3

#### **Biological occupational exposure limits**

No information available.

## 8.2 Exposure controls

# **Appropriate engineering controls**

None under normal use conditions.

#### Personal protective equipment

## **Eye/face protection**

Laballey.com Page 4 of 9

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 protection

Wear appropriate protective gloves.

#### **Body Protection**

Wear appropriate clothing to prevent skin exposure.

#### Respiratory protection

No protective equipment is needed under normal use conditions.

#### Control of environmental exposure

No special precautionary measures necessary.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance Dark gray
Odor Odorless.

Odor Threshold No information available. pH No information available.

Melting Point/Range 3652.2 - 3697.2 °C / 6606 - 6687 °F

Boiling Point/Range 4200 °C / 7592 °F Evaporation Rate Not applicable.

Flammability (solid) No information available.

Flammability or explosive limit

Upper No information available. Lower No information available.

Vapor Pressure Negligible.
Vapor Density Not applicable.

Density 2.09-2.25 g/cm3 at 25 °C

Solubility Insoluble in water.

Partition coefficient; n-octanol/water No information available.

Autoignition Temp 730 °C / 1346 °F

Decomposition Temp No information available.

Viscosity Not applicable.

Molecular Formula C
Molecular Weight 12

VOC Content(%) No information available.

Oxidizing properties None.

# 9.2 Other safety information

Laballey.com Page 5 of 9

## **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

None known, based on information available.

#### 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Avoid dust formation. Excess heat.

## 10.5 Incompatible materials

No information available.

# 10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2)

## **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

## **Product Information, Component Information**

**Acute toxicity** 

Component Graphite		LD50 Oral	LD50 Dermal	LC50 Inhalation
		Not listed	Not listed	> 2000 mg/m3 (rat)

#### Skin corrosion/irritation

No information available.

## Serious eye damage/eye irritation

Irritating to eyes.

# Respiratory or skin sensitization

No information available.

## Germ cell mutagenicity

No information available.

Carcinogenicity

- an enre germent						
Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Graphite	7782-42-5	Not listed				

Laballey.com Page 6 of 9

## Specific target organ toxicity - single exposure

None known.

# Specific target organ toxicity - repeated exposure

None known.

#### Reproductive toxicity

No information available.

#### **Chronic effects**

No information available.

## 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product		Species	Test Results		
Graphite	LC50	Danio rerio	> 100 mg/L	96 h	

# 12.2 Persistence and degradability

No information available.

# 12.3 Bio accumulative potential

No information available.

# 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Laballey.com Page 7 of 9

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

DOT (US)

Not regulated.

**IMDG** 

Not regulated.

**IATA** 

Not regulated.

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**SARA 302 Extremely hazardous substance** 

Not listed.

SARA 311/312 Hazardous

See section 2 for more information.

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.

Laballey.com Page 8 of 9

## Safe Drinking Water Act

Not regulated.

# **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

#### **US state regulations**

**US. Massachusetts RTK - Substance List** 

Listed.

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

Listed.

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

**California Proposition 65** 

Not listed.

## **SECTION 16: Other information**

Issue date: 09/09/2024

#### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Laballey.com Page 9 of 9