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## Safety Data Sheet

### Section 1 – Identification of the Substance / Preparation, and of the Company

#### 1.1: Product Identification

Trade Name: Natural Graphite 85-98% Carbon  
Registration Number: Exempted per Annex V  
Substance Name: Graphite, CAS 7782-42-5, EC Number: **231-955-3**

#### 1.2: Identified uses of the substance or mixtures

Uses: Inorganic source of carbon, filler, thermal additive, re-carburizer, tint/pigment, lubricant, chemically resistant additive, EMF absorber, milling and sieving, bulk loading, unloading, refractory, general inert filler additive.

Uses Advised Against: For industrial use only. Not recommended as food or cosmetic additive.

#### 1.3: Supplier Information

Company:	Lucky Line Products	Telephone: 858-549-6699
	7890 Dunbrook Rd	Fax: 858-549-0904
	San Diego, CA 92126	Preparer: AVT: Date 12/16/2014
		Email Address: <a href="mailto:DPerez@LuckyLine.com">DPerez@LuckyLine.com</a>

#### 1.4: Emergency Telephone Number 1-800-255-3924

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### Section 2: Hazards Identification

#### 2.1: Classification of substance

Graphite is not a hazardous substance

#### 2.2: Label Elements

Graphite is not a hazardous substance or mixture

#### 2.3: Other hazards

Natural graphite may contain crystalline silica, variety quartz. This substance is not admixed with the graphite, but is a naturally occurring mineral impurity that is intimately associated with the graphite. In most cases this silica is not in respirable form unless the graphite is very finely divided. IARC Monograph Vol 68, 1997 Concludes That There Is Sufficient Evidence That Inhaled Crystalline Silica Causes Cancer In Humans. IARC Classification: Group 1.

3. Composition/ Information on Ingredients:

Chemical Composition: Carbon variety Graphite 85-98% (balance is inert mineral ash) CAS # 7782-42-5  
EC # 231-955-3  
Molecular Weight: 12.0  
Formula: C

**Section 4 – First Aid Measures**

<b>Ingestion</b>	Get immediate medical attention. Do not induce vomiting unless directed by medical personnel. Natural graphite is not known to be toxic by ingestion. However, ingestion may cause digestive system blockage.
<b>Skin Contact</b>	Wash with mild soap and warm water: Natural graphite is non-staining to skin
<b>Eye Contact</b>	Rinse with tepid water until eyes are clear of particulates. Seek medical attention if irritation persists.
<b>Inhalation</b>	Remove patient to particulate-free environment. Wear approved dust mask to avoid breathing dust. Seek medical attention if irritation persists.

**Section 5 – Fire Fighting Measures**

<b>Natural Graphite is not flammable under normal conditions</b>	
<b>Extinguishing Media</b>	Dry chemical extinguisher, water, sand, limestone powder,
<b>Protective Equipment</b>	Self-contained air pack, gloves, safety goggles
<b>Special Hazards</b>	At temperatures above 1500 C, graphite reacts with substances containing oxygen, including water and carbon dioxide. In case of intensely hot fire events, use sand to cover and isolate graphite.
<b>NFP Rating</b>	110
<b>Products of Combustion:</b>	Carbon dioxide, CO <sub>2</sub> , carbon monoxide, CO.

**Section 6 – Accidental Release Measures**

<b>Personal Precautions</b>	Wear approved dust mask, safety goggles, and conventional work gloves.
<b>Methods for Cleaning Up:</b>	Conventional Sweep or vacuum. Avoid creating dusting conditions
<b>Environmental Precautions:</b> Natural graphite is inert and insoluble and will not pose any soluble ion hazards to the environment. However, good housekeeping practices should be followed and spilled material should be cleaned up, and disposed of in an appropriate manner.	

**Section 7 – Handling and Storage**

<b>Handling</b>	Conventional means to avoid dusting conditions. Keep powder from contacting eyes. Natural graphite is a good conductor of electricity. Avoid contact between natural graphite and electrical circuitry.
<b>Slip Hazard</b>	Graphite is a highly lubricious material and may present a slip hazard if spilled on pedestrian surfaces.
<b>Storage and Incompatibilities</b>	Store all carbonaceous materials in a dry location. Natural graphite is incompatible with all oxidizing agents.
<b>Dust Explosibility Hazards:</b>	Natural graphite poses a very slight risk of dust explosion hazard: Dust class ST1, MIE greater than 10 J (very low hazard of spark conflagration)

**Section 8 – Exposure Controls/ Personal Protection**

Control Parameters	German or US Limits			Control Reference
	Component	CAS No.	%	
Natural Graphite	7782-42-5	96-99.9	2.0 mg/m <sup>3</sup> Respirable dust	2014 ACGIH TLV Handbook
Silica, var Quartz	14808-60-7	0.1-3.0%	0.025 mg/m <sup>3</sup> Respirable dust	2014 ACGIH TLV Handbook
<b>Engineering Measures</b>	Use adequate dust collection to maintain dust levels below the control or recommended values.			
<b>Respiratory Protection</b>	Approved dust mask, type N95 recommended.			
<b>Eye Protection</b>	Conventional safety glasses or goggles.			
<b>Skin Protection</b>	Conventional work gloves and clothing.			
<b>Additional</b>	Graphite spilled on pedestrian surfaces may pose a significant slip hazard.			

**Section 9 – Physical and Chemical Properties**

<b>Color:</b>	Gray to Black	<b>Material State</b>	Solid, granular or powder
<b>Odor</b>	None		
<b>Boiling Point:</b>	NA	<b>Melting Point</b>	Sublimates at 3652C
<b>Specific Gravity</b>	2.26	<b>Vapor Density</b>	Not applicable
<b>Vapor Pressure (mm Hg)</b>	NA	<b>% Volatile (By Wt.)</b>	0-4%
<b>Solubility in Water</b>	Insoluble	<b>Evaporation Rate:</b>	Not applicable
<b>pH</b>	NA	<b>Auto Ignition</b>	Above 500 °C
<b>Decomposition Temp</b>	Oxidizes above 400C	<b>Dust Explosion class</b>	ST1=KST>0-200 bar m/s
<b>Flash Point</b>	NA Solid substance with very high melting point.		

**Section 10 – Stability and Reactivity**

<b>Stability</b>	Stable. Will not polymerize
<b>Conditions to Avoid</b>	Avoid contact with oxidizing agents
<b>Materials to Avoid</b>	Oxidizing agents
<b>Hazardous Decomposition Products</b>	Carbon Dioxide (CO <sub>2</sub> ), Carbon Monoxide (CO)
<b>Flammable Limits (% by Vol.)</b>	LEL and UEL values not available: Minimum Ignition Energy (MIE) greater than 10 joules. When exposed to extremely high energy ignition sources very finely divided graphite powder can form explosive mixtures with air. Avoid contact between graphite dust clouds and high energy ignition sources. Classified as <u>not</u> flammable.

**Section 11 – Toxicological Information**

Toxicological information about natural graphite is not available. Natural graphite is inert, insoluble and is not expected to present an ingestion hazard.

**Section 12 – Ecological Information**

<b>Assessment</b>	Natural graphite is inert and insoluble. To the best of our knowledge, natural graphite should not present any environmental hazards.
<b>Persistence and degradability:</b>	Natural graphite is a reduced form of carbon and will not degrade further under normal conditions. This form of carbon is stable, unreactive in water under ambient conditions, and is insoluble.
<b>Bioaccumulation:</b>	There is no evidence indicating that natural graphite is bio-accumulative.
<b>Aquatic Toxicity:</b>	Data not available.
<b>Soil Mobility:</b>	Not determined, however natural graphite is not expected to have mobility in soil as it is an insoluble, inorganic substance.

### Section 13 – Disposal Considerations

Dispose of in a manner which conforms to local, state and Federal regulations.

Provision of a European Waste Catalog, waste code number, should be handled in agreement with the regional waste disposal company.

Packaging should be completely emptied of contents and disposed of in a manner specified by the recycler/regional disposal contractor.

### Section 14 – Transport Information

ICAO / IATA	
Shipping Name	Natural Graphite
Hazard Class	Non Hazardous
Subsidiary Class	NA
UN Number	NA
Packing Group	NA
Marine Transport	Not classified as a hazardous material
Land Transport	Not classified as a hazardous material
Air Transport	Not classified as a hazardous material
Transport Label Required	No label required
Additional Transport Info	Technical Name (N.O.S.): Natural Graphite

### Section 15 – Regulatory Information

Not Classified	
Inventory Information:	
EEC EINECS	#231-955-3
US TSCA	Yes
Canada DSL	Yes
Canada NDSL	No
Australian AICS	Yes
Korean ECL	Yes
Asia PAC	Yes
Swiss Giftliste 1	Yes #G8422
IECSC	Yes
PICCS	Yes
New Zealand NZLoC	Yes

**REACH:** Natural graphite is exempt from REACH registration.

**RoHS:** Natural graphite is compliant with the EU RoHS directive

**WEEE:** Natural graphite is compliant with the EU waste electrical and electronic equipment directive

### Section 16 – Other Information

#### Abbreviations Used:

ACGIH TWA American Council of Government and Industrial Hygienists Time Weighted Average value. CAS  
 Chemical Abstracts Service  
 NA Not applicable  
 N.O.S. Not otherwise specified