

LTS Research Laboratories, Inc. Safety Data Sheet Graphite

1. Product and Company Identification		
Trade Name:	Graphite	
Chemical Formula:	С	
Recommended Use:	Scientific research and development	
Manufacturer/Supplier:	LTS Research Laboratories, Inc.	
Street:	37 Ramland Road	
City:	Orangeburg	
State:	New York	
Zip Code:	10962	
Country:	USA	
Tel #:	855-587-2436 / 855-lts-chem	
24-Hour Emergency Contact:	800-424-9300 (US & Canada) +1-703-527-3887 (International)	
	+1-705-527-5887 (International)	
	2. Hazards Identification	
Signal Word:	Warning	
Hazard Statements:	H228: Flammable solid	
	H319 Causes serious eye irritation H335: May cause respiratory irritation	
Precautionary Statements:	H319 Causes serious eye irritationH335: May cause respiratory irritationP210: Keep away from heat/sparks/open flames/hot surfaces – No smoking	
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	3. Composition
Chemical Family:	Ceramic
Additional Names:	Carbon, Carbon black
Graphite (C):	
Percentage:	100 wt%
CAS #:	7782-42-5
EC #:	231-955-3
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention
Skin:	Wash affected area with mild soap and water. Remove any
	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
Lycs.	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Flammable
Extinguishing Media:	CO ₂ , extinguishing powder, or water spray. Fight larger fires with
	water spray or alcohol resistant foam
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate
	absolute (HEPA) air filter and place in a closed container for disposal
	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Handling Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from
Storage Conditions:	
Storage Conditions:	materials and conditions listed in section 10.
	Do not use tobacco or food in work area. Wash thoroughly before
Storage Conditions:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
Storage Conditions:	Do not use tobacco or food in work area. Wash thoroughly before

	8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	15 mmpcf as C, long-term value		
Threshold Limit Value:	2 mg/m^3 as C (except fibers), resp. fraction, long-term value		
Special Equipment:	None		
Respiratory Protection:	Dust Respirator		
Protective Gloves:	Rubber gloves		
Eye Protection:	Safety glasses or goggles		
Body Protection:	Protective work clothing. Wear close-toed shoes and long		
	sleeves/pants.		
9. P	hysical and Chemical Characteristics		
Color	Dark grey to black		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Insoluble		
Boiling Point:	N/A		
Melting Point:	>2760 °C		
Flash Point:	N/A		
Autoignition Temperature:	N/A		
Density:	2.09-2.23 g/cc		
Molecular weight:	12.011 g/mol		
	12.011 g/mor		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Oxidizing agents		
Incompatible Conditions:	INOILE Statistic konstoniss Inc.		
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide		
	11. Toxicological Information		
Potential Health Effects:			
	Causes serious eve damage		
Eyes:	Causes serious eye damage May cause irritation		
Eyes: Skin:	May cause irritation		
Eyes: Skin: Ingestion:	May cause irritation May cause irritation		
Eyes: Skin:	May cause irritation		
Eyes: Skin: Ingestion: Inhalation: Chronic:	May cause irritation May cause irritation May cause irritation N/A		
Eyes: Skin: Ingestion: Inhalation:	May cause irritation May cause irritation May cause irritation		
Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions:	May cause irritation May cause irritation May cause irritation N/A N/A		
Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms:	May cause irritation May cause irritation May cause irritation N/A N/A		
Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose:	May cause irritation May cause irritation May cause irritation N/A N/A N/A		
Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen:	May cause irritation May cause irritation May cause irritation N/A N/A N/A N/A 12. Ecological Information		
Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen: Aquatic Toxicity:	May cause irritation May cause irritation May cause irritation N/A N/A N/A N/A 12. Ecological Information Low		
Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen: Aquatic Toxicity: Persistent Bioaccumulation Toxicity:	May cause irritation May cause irritation May cause irritation N/A N/A N/A N/A 12. Ecological Information Low No		
Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen: Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:	May cause irritation May cause irritation May cause irritation N/A N/A N/A N/A 12. Ecological Information Low No No		
Eyes: Skin: Ingestion: Inhalation: Chronic: Signs & Symptoms: Aggravated Medical Conditions: Median Lethal Dose: Carcinogen: Aquatic Toxicity: Persistent Bioaccumulation Toxicity:	May cause irritation May cause irritation May cause irritation N/A N/A N/A N/A 12. Ecological Information Low No		

Dispose of in accordance with local, state, national, and international regulations.

	14. Transportation Data
Hazardous:	Hazardous as powder only.
Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives.
Packing Group:	III
UN Number:	UN1325
Proper Shipping Name:	Flammable solid, organic, n.o.s. (Graphite)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	No

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised:

08/30/2023