



Safety Data Sheet CARBON PLUS

1. IDENTIFICATION

Product identifier

Product Name: CARBON PLUS
Product Code:

Recommended use of the chemical and restrictions on use

Recommended Use: Fertilizer Additive Product/Soil amendment
Recommended Restrictions: Workers (and your customers or users in the case of resale) should be informed of the need to observe all standard safety procedures for handling solid products to avoid spills and potential contact with the material.

Details of the supplier of the safety data sheet

Supplier Name: CAROLINA EASTERN, INC.
Supplier Address: 347 McAllister Mill Road
Scranton, S.C. 29591
Supplier Phone Number: 843-389-2761
Contact Phone: (843) 598-8522
Supplier Email: jthomas@carolina-eastern.com

Emergency telephone number

CHEMTREC 800-424-9300
(843) 812-0191

2. HAZARDS IDENTIFICATION

Classification

Physical hazards: Not classified.
Health hazards: Not classified.
Environmental hazards: Not classified.
OSHA defined hazards: Not classified.

GHS Label elements, including precautionary statements

Pictogram:



Signal word: None

Hazard statement(s): This product is not hazardous and does not meet the criteria for classification.

Appearance: Dark Brown

Physical State: Liquid

Odor: Light Soil Odor

Precautionary statements: **Prevention:**
Always use good standard safety practices when handling this or any product. Avoid contact with skin/eyes and do not ingest. Avoid breathing mist if generated.

Response:
Wash hands after handling.

Disposal:
Dispose of waste and residues in accordance with local authority requirements.

Hazards not otherwise classified (HNOC): None known.

Other information: None.

3. COMPOSITION OF PRODUCT/INFORMATION ON INGREDIENTS

Ingredients	CAS-No.	Weight %	Trade Secret
Lignite	129521-66-0	30 – 60%	*
Potassium hydroxide	1310-58-3	1 – 5%	*

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice: Non-hazardous material. If discomfort, irritation, or reaction of any kind occurs, seek immediate medical advice from a qualified physician. Make sure that medical professionals are aware of the material(s) involved.

In case of eye contact: Wash eyes immediately with fresh water for at least 15 minutes and seek medical attention if irritation develops and persists.

In case of skin contact: Wash skin thoroughly with soap and water. Get medical attention if irritation develops and persists.

If inhaled: If respiratory irritation or any signs or symptoms occur, move person to fresh air. Remove subjects from area and seek medical help if there is any difficulty breathing or if these or any other symptoms persist. If breathing has ceased, give mouth-to-mouth resuscitation. If any of these effects continue, see a doctor.

If swallowed: Give subject lots of water or milk to drink, and induce vomiting. Repeat until vomit has no traces of a black or dark brown color.

Most important symptoms and effects, both acute and delayed: No data available.

Indication of any immediate medical attention and special treatment needed: No data available.

Note to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

This product is not flammable. Use normal firefighting techniques using water and other available fire-suffocating agents.

Extinguishing media

Suitable extinguishing media: Water, fire retardant powders, foam carbon dioxide, and dry chemical powders are all suitable fire-fighting media.

Unsuitable extinguishing media: Do not use water jets that will unnecessarily spread the fire.

Special hazards arising from the substance or mixture: When surrounded by fire, gases hazardous to health such as carbon monoxide may be formed from this product.

Advice for firefighters: Self-contained breathing equipment are essential to those exposed to fumes. Material can be slippery if spilled. Use water spray to cool unopened containers as pressure may build inside of them.

Further information: Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Do not touch or walk on spilled material; material can be slippery if spilled. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to fumes.

Environmental precautions: Collect and dispose of spillage as indicated in section 13 of the SDS. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up: Stop the flow of material, if this is without risk. Dike for later disposal if attending to other priorities is needed. Remove as much product as possible and place into containers for disposal by siphoning or pumping if possible; flush the area with large amounts of water. If the spill is small, add an absorbent material such as sawdust, sand, or soil. Pick up the mixture and place it in containers in which it can be disposed of following applicable federal, state, or local procedures.

Reference to other sections: For disposal see Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling. Practice good housekeeping and do not eat, drink, or smoke near the area where the product is stored.

Recommendations on the conditions for safe storage: SPECIAL PRECAUTIONS: Do not store this product in metallic containers. Do not store containers without a label or not properly labeled containers. Maintain containers closed when not in use.

Product is subject to moisture loss so it should be stored in a closed container when not in use. Store in a dry, cool and well-ventilated place and if available provide containment. Avoid storing under extreme temperatures that are below -10° C or over 45° C.

Eyewash facilities should be available. Monitor containers for any potential leaks or pressure build-up inside the containers. If there is any sign of pressure build-up contact the manufacturer.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Permissible Exposure Limits**

Not applicable/Not established

Exposure Controls

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Personal Protective Equipment

General hygiene considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Eye/face protection: Safety glasses with side-shields or safety goggles.

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: Wear suitable protective clothing. Use safety goggles and gloves when applying this material.

Respiratory protection: Use a safety mask to avoid mist inhalation. Wear NIOSH/MSHA approved air-purifying respirator with cartridges/canisters if there is a risk of exposure to fumes or mists at levels that might cause discomfort.

Control of environmental exposure: Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical and Chemical Properties**

Physical State:	Liquid
Appearance:	Dark brow
Odor:	Light soil odor
Odor Threshold:	No data available

<u>Property</u>	<u>Values</u>
pH	8.7 – 9.2
Freezing point	N/A
Boiling point	N/A
Flash Point (F)	Above 200° F
Evaporation Rate	1
Flammability (solid, gas)	N/A
Flammability Limit in Air	
Upper flammability limit	N/A
Lower flammability limit	N/A
Vapor pressure	16.5 mm of Hg
Vapor density	1

<u>Property</u>	<u>Values</u>
Water solubility	Miscible
Solubility in other solvents	N/A
Partition coefficient: n-octanol/water	N/A
Autoignition temperature	N/A
Decomposition temperature	N/A
Viscosity	N/A
Explosive properties	N/A
Oxidizing properties	Not considered an oxidizer
Other information	
Specific gravity	1.03-1.05 g/ml

10. STABILITY AND REACTIVITY

Reactivity: Stable when stored above 32°(F (0° C). Stable under normal storage conditions.

Chemical Stability: Product is stable. Under extremely high temperatures, the evolution of CO or CO₂ gassing-off may occur. Exposure to extreme alkaline materials may cause a neutralization reaction to occur with associated CO₂ gassing-off.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Hazardous: Polymerization: No data available. HAZARDOUS POLYMERIZATION: Will not occur.

Conditions to Avoid: Extreme high temperatures with no ventilation. Contact with alkaline materials.

Incompatible Materials: Formulation adjuvants in some chemicals may be incompatible and cause insoluble solids to form. Always conduct a compatibility jar test before mixing product in large quantities.

Hazardous Decomposition Products: Other decomposition products – no data available. In the event of a fire see Section 5. HAZARDOUS DECOMPOSITION: Not Known.

Other: Order of addition when mixing this product with other products is important. Please read and follow the entire label before use.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	No data available. Avoid inhalation of dust. Prolonged inhalation may be harmful. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica can cause silicosis.
Eye contact	Causes serious eye irritation.
Skin contact	Avoid contact with skin. Corrosive. Contact with skin may cause severe irritation and burns
Oral	Harmful if swallowed. Not an expected route of exposure. Do not taste or swallow.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Hydroxide 1310-58-3	= 284 mg/kg (Rat)		
Free Silica (Quartz) 14808-60-7	= 500 mg/kg (Rat)		

Information on toxicological effects

Symptoms No Information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No Information available.

Germ cell mutagenicity No Information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Free Silica (Quartz) 14808-60-7	A2	Group 1	Known	x

ACGIH (American Conference of Governmental Industrial Hygienists)*A2 - Suspected Human Carcinogen***IARC (International Agency for Research on Cancer)***Group 1 - Carcinogenic to Humans***NTP (National Toxicology Program)***Known - Known Carcinogen***OSHA (Occupational Safety and Health Administration of the US Department of Labor)***X – Present*

Reproductive toxicity No Information available.

STOT - single exposure No Information available.

STOT - repeated exposure No Information available.

Chronic toxicity Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.

Target organ effects EYES, Lungs, Respiratory system, Skin.**Aspiration hazard** No Information available.**Numerical measures of toxicity - Product Information****Unknown Acute Toxicity** 90.16% of the mixture consists of ingredient(s) of unknown toxicity**The following values are calculated based on chapter 3.1 of the GHS document.**

ATEmix (oral) 904.00 mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity:** This product is not classified as environmentally hazardous.**Persistence and Degradability:** No data available.**Bioaccumulation:** Product is biodegradable and presents minimum bioaccumulation potential. No data available.

Other adverse effects: No other adverse environmental effects are expected from this product. Do not allow large quantities to reach groundwater, open bodies of water or sewer system.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods

PRODUCT DISPOSAL: Excess product that cannot be used according to label instructions must be disposed of according to applicable federal, state, or local procedures.

Not classified as hazardous waste. Disposal should follow all Federal, State and Local regulations. If product has not been altered or mixed, it can be disposed of at a permitted facility. Authorization is required before disposing of product at any such facility. Do not dispose of product through the sewer system.

Packaging

Triple rinse plastic containers and offer for recycling. Surplus and non-recyclable solutions should be offered to a licensed disposal company. Do not reuse containers.

CONTAINER DISPOSAL: Offer for recycling or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. **PLASTIC BAGS:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT (Land)	Not regulated as dangerous goods. Shipping Class 70
DOT (Vessel)	Not regulated as dangerous goods.
IMO/IMDG (Vessel)	Not regulated as dangerous goods.
IATA (Air)	Not regulated as dangerous goods.
IBC Code:	"OS". Not regulated.
Reportable quantity (RQ):	Not applicable
Placard:	Not applicable
Emergency response guide	Not applicable

15. REGULATORY INFORMATION**US Federal Regulations**

This product is not known to be a "hazardous chemical" defined by OSHA Hazard Communication Standard 29 CFR 1910.1200.

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

Not Regulated.

SARA of 1986:

Immediate Hazard	No
Delayed Hazard	No
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No

SARA 304:

Not regulated.

SARA 311/312 Hazard Categories

Not regulated.

SARA 313

Not regulated.

OSHA (29 CFR 1910.1001-1050)

Not listed.

CERCLA (40 CFR 302.4)

Components are not listed.

US State Regulations**US Clean Water Act.**

The components of this product are not listed as toxic pollutants nor as priority pollutants.

16. OTHER INFORMATION**Further information**

This SDS summarizes to the best of our knowledge at the date of issue, the chemical health and safety hazards of the product and general guidance on how to safely handle the product in the workplace. Since Carolina Eastern, Inc. cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Carolina Eastern, Inc and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. Neither Carolina Eastern, Inc nor the seller shall be held responsible in any manner for any personal injury or property damage or loss resulting to the buyer or the other persons from handling, storage or use of this material, not in accordance with the directions. The buyer assumes all risk and liability resulting from improper handling, storage or use and accepts and uses this material on these conditions.

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Issuing Date 4-30-2024

Revision Number 01