



SAFETY DATA SHEET (SDS)

PRODUCT: Carbo Force

Section 1 – Product and Supplier Identification:

Valence Drilling Fluids, LLC
609 S. Kelly Ave Ste D-1

Edmond, OK 73003

Phone: 405-285-6454

Product Identifier: Carbo Force

Emergency Contact: Chemtrek - 1-800-424-9300 (24 hours)

Recommended Use: Typical customer applications of recarburizer, graphite production, and carbon cover.

Section 2 – Hazard Identification

Hazards of the Product chemical:

not classified as hazardous by the classification used.

Classification system used:

ABNT NBR 14725-4 2014

Other hazards other than result in a classification:

The product does not have other hazards

**2.1 Appropriate labelling elements:
Precautionary recommendations:**

Wash hands after handling the product.
When handling the product do not eat, drink or smoke.
It is recommended to use the necessary EPIs during the Handling of the duct.
Get product information before handling.
Store the product in a suitable location. In case of emergency, proceed according to information from this MSDS.

Section 3 - Composition

Name	% Weight	CAS No.
Carbon	98 Minimum	7440-44-0
Hydrogen	0.50 Maximum	1333-74-0
Water	1.00 Maximum	7732-18-5
Sulphur	1.30 Maximum	7704-34-9

Section 4 – First Aid Measures

Inhalation: Remove victim to an exposure-free environment

Eyes: Flush with water if irritation occurs and obtain medical assistance.

Ingestion: Not expected; remove any accessible material, rinse throat

Immediate Medical Attention: Not expected, see above.

Medical Conditions Recognized As Possibly Aggravated By Exposure:

Individuals with pre-existing chronic respiratory impairments or with serum antitrypsin deficiency may be at increased risk of pneumoconiosis.

Section 5 – Fire Fighting Measures

The products are not considered combustible but will oxidize at high temperatures (>450C / 842F) and exposure to air (oxygen). Removal of the sources of the heat and/or air will help diminish any burning. Burning will release carbon dioxide or carbon monoxide if levels of oxygen are not available to support complete combustion.

Use of protective clothing, breathing equipment, and fire extinguishers should be of the type appropriate for surrounding materials.

Unusual fire or explosion hazards: Concentrations of airborne petroleum coke dust can present an explosion hazard. Proper dust collection and housekeeping will minimize such hazards.

Section 6 – Accidental Release Measures

Chunk pieces can be readily contained and removed to proper storage. Loose flowing material (particles, powders, and dust) should be contained and possibly vacuumed and placed in sealable containers. Exposure to dust should be avoided as noted above. Any required disposal should be done in accordance with local waste control regulations.

Section 7 – Handling and Storage

Products should have proper and safe storage conditions and practices. Clearly label all containers. Maintain good housekeeping to minimize dust and related slippery areas. The use of gloves and nuisance dust masks are suggested. Wash hands before eating or drinking and do not store food in areas where exposure to dust may be possible.

Section 8 – Exposure Controls and Personal Protection

Exposure limits and guidelines:

Material	OSHA PEL 8 hr TWA	ACGIH TLV 8 hr TWA
Petroleum Coke	15 mg / m ³ (total) 5 mg / m ³ (respirable)	10 mg / m ³ (total) 3 mg / m ³

Note: Users of these materials are advised to consult and comply with any local regulations

Personal Protective Equipment (PPE):

Recommended use of NIOSH-approved respiratory equipment (ie, an N-95 or equivalent dust mask) even at exposure levels below the stated PEL limits.

Protective gloves suggested but not required. Eye Protection suggested if airborne particles are produced. Safety glasses with side shields are recommended.

Other protective equipment: none required.

Section 9 – Physical and Chemical Properties

Aspect: Solid Pore, dark Gray Coloration

Odor: Slightly characteristic of sulfur

pH: Not Available

Melting Point: Not Available

Initial Boiling Point: Not Available

Flash point: Not Available

Evaporation Rate: Not Available

Flammability: Not Available

Lower/Upper Limit of Flammability: Not Available

Steam Pressure: Not Available

Steam Density: Not Available

Apparent Density: 0.75 +* -.05 g/cm³

Water Solubility: Insoluble

Partition Coefficient: Not Available

Self Ignition Temperature: Not Available

Viscosity: Not Available

Volatile Part: Hydrocarbons 2.0%

Combustion Point: >500 Degrees C

Section 10 – Stability and Reactivity

Reactivity: During combustion this product emits amounts of Sulfur Dioxide.

Chemical Stability: Stable under normal temperature and pressure conditions.

Conditions to Avoid: High Temperatures, ignition sources, and incompatible materials.

Incompatible Materials: Strong oxidizing agents like peroxides.

Section 11 – Toxicological Information

Acute Toxicity: Non Toxic

Intake: Product dust may cause irritation and dehydration of membranes Mucous.

Carcinogenic: Non Carcinogenic

Section 12 – Ecological Information

Deemed non-hazardous to the environment. Its effect on the environment is considered to be of negligible consequence, if any.

Section 13 – Disposal Considerations

Does not contain substances that are considered to be a hazardous waste if disposed. Any such disposal should follow all EPA regulations.

Section 14 – Transport Information

Not regulated as a hazardous material for transportation by the DOT or other related agencies.

Section 15 – Regulatory Information

Listed on the US EPA Toxic Substances Control Act (TSCA) inventory.

Section 16 - Other Information

Other information includes:

HMIS Ratings: Health 1 (possible chronic health effects from continuous exposure)

Flammability 1

Physical Hazard 0

This SDS was prepared with reasonable care to include all pertinent data and information available regarding the referenced product material and assumes no responsibility for the accuracy of information obtained from other sources. No warrantee, expressed or implied, is made.

This SDS was prepared according to the US OSHA Hazard Communication Standard and Canada Controlled Products Regulations (WHMIS).