

## Aquakast 13

Revision Date March 21, 2024

### 1. Product and Company Identification

<b>Product Information</b>	
Trade Name	Aquakast 13
Product Description	Water-based graphite coating
Recommended Uses	Lubricant, protective coating
<b>Company</b>	Southwestern Graphite, Inc. (a division of Asbury Carbons Inc.) 2564 Highway 12 DeQuincy, LA 70633
<b>Emergency Telephone</b>	US: 1-800-255-3924; International: +01-813-248-0585; China: 400-120-0751; Brazil: 0-800-591-6042; India: 000-800-100-4086; Mexico: 01-800-099-0731 ChemTel contract number: MIS0001931 (collect calls accepted)
Information Phone	1-908-537-2155
Website	www.asbury.com

### 2. Hazards Identification

<b>Classification</b>	Not a hazardous substance
<b>Labeling</b>	Not a hazardous substance, no label elements are required

### 3. Composition / Information on Ingredients

Components	CAS No.	EINECS No.	Weight %	Hazard Statement(s)
Water	7732-18-5	231-791-2	78 - 85%	---
Graphite	7782-42-5	231-955-3	15 - 22%	---

### 4. First Aid Measures

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

### 5. Fire Fighting Measures

<b>Graphite is not flammable under normal conditions</b>	
<b>Extinguishing media</b>	Dry chemical extinguisher, water, sand, limestone powder
<b>Special fire 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>Products of Combustion</b>	Carbon dioxide (CO <sub>2</sub> ), carbon monoxide (CO).
<b>Advice for Fire Fighters</b>	Use self contained air pack, gloves, safety goggles
<b>NFP Rating</b>	110

### 6. Accidental Release Measures

<b>Personal precautions</b>	Wear approved dust mask, safety goggles, and water-proof work gloves. Graphite is electrically conductive and any cleanup methods should avoid contacting graphite with electrical circuitry.
<b>Environmental precautions</b>	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.

<b>Methods for cleaning up</b>	Contain spillage, and then collect with non-combustible absorbent material. Place in suitable, closed containers for disposal.
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## 7. Handling and Storage

<b>Precautions for safe handling</b>	Keep containers closed when not in use. Loosen closures slowly. Graphite is a conductor of electricity. Avoid contact between graphite and electrical circuitry.
<b>Fire and explosion protection</b>	No special instructions - material is not combustible.
<b>Storage precautions</b>	Protect from freezing. Keep container tightly closed in a dry and well-ventilated place. Graphite is incompatible with all oxidizing agents

## 8. Exposure Controls/ Personal Protection

Ingredients with control parameters / occupational exposure limits			
Component	CAS No.	TWA	Control Reference
Water	7732-18-5	---	---
Graphite	7782-42-5	2.0 mg/m <sup>3</sup>	Respirable dust, 2014 ACGIH Handbook
<b>Engineering controls</b>	Use adequate dust collection to maintain dust levels below the control or recommended values.		
<b>Respiratory Protection</b>	Use approved dust mask, type N95 recommended.		
<b>Eye Protection</b>	Safety glasses with side shields or goggles.		
<b>Skin Protection</b>	Conventional work gloves and clothing.		
<b>Hygiene measures</b>	Graphite spilled on pedestrian surfaces may pose a significant slip hazard.		

## 9. Physical and Chemical Properties

<b>Appearance</b>	Gray to black liquid	<b>Lower explosion limit</b>	n/a
<b>Odor</b>	Mild	<b>Upper explosion limit</b>	n/a
<b>pH</b>	9.0 – 10.0	<b>Vapor pressure</b>	As water
<b>Freezing point</b>	32°F (0°C)	<b>Vapor density</b>	As water
<b>Boiling range</b>	212°F (100°C)	<b>Water solubility</b>	Dispersible
<b>Flash point</b>	n/a	<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Evaporation rate</b>	As water	<b>Autoignition temperature</b>	No data available
<b>Specific gravity</b>	1.10 g/ml	<b>% volatile by weight</b>	78%

## 10. Stability and Reactivity

<b>Chemical stability</b>	Stable. Will not polymerize or self react spontaneously.
<b>Possibility of hazardous reactions</b>	None known
<b>Conditions to avoid</b>	Graphite will begin to oxidize at temperatures above 450 C.
<b>Materials to avoid</b>	Oxidizing agents
<b>Hazardous decomposition products</b>	Carbon Dioxide (CO <sub>2</sub> ), Carbon Monoxide (CO)

## 11. Toxicological Information

<b>Acute Toxicity:</b>		
Test (species)	Results	Remarks
Ingestion (rat)	LD50 > 2000 mg/kg bw	OECD 423
Inhalation (rat)	LC50 > 2000 mg/m3	Dust, OECD 403
Eye contact (rabbit)	Not irritating	OECD 405
Skin contact (rabbit)	Not irritating	OECD 404
Sensitization (mouse)	Not sensitizing	OECD 429
<b>Chronic Toxicity:</b>		
Test (species)	Results	Remarks
Genotoxicity (in vitro)	Negative	OECD 471, OECD 473, OECD 476

Carcinogenicity	Not carcinogenic	Literature
Reproductive toxicity (rat)	NOAEL > 1000 mg/kg bw	OECD 422

## 12. Ecological Information

<b>Persistence and degradability</b>	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 potential</b>	There is no evidence indicating that graphite is bioaccumulative.			
<b>Mobility</b>	Graphite is not expected to have mobility in soil as it is an insoluble, inorganic substance.			
<b>Aquatic Toxicity:</b>				
<b>Test</b>	<b>Effect dose</b>	<b>Exposure time</b>	<b>Method</b>	<b>Remarks</b>
Acute fish toxicity	LC50 > 100 mg/l	96 hour	OECD 203	No adverse reaction observed.
Acute daphnia toxicity	EC50 > 100 mg/l	48 hour	OECD 202	No adverse reaction observed.
Acute algae toxicity	EC50 > 100 mg/l	72 hour	OECD 201	No adverse reaction observed.

## 13. Disposal Considerations

<b>Material Disposal</b>	Dispose of in a manner which conforms to local, state and Federal regulations. Graphite is non-hazardous but disposal of graphite waste should be handled in a responsible matter.
<b>Packaging Disposal</b>	Packaging should be completely emptied of contents and disposed of in a manner specified by the recycler/regional disposal contractor.

## 14. Transport Information

<b>UN number</b>	Not regulated
<b>Proper shipping name</b>	n/a
<b>Transport hazard class</b>	n/a
<b>Packing group</b>	n/a
<b>Marine pollutant?</b>	No

## 15. Regulatory Information

<b>Inventory Information (graphite):</b>	
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
<b>RoHS:</b> Graphite is compliant with the EU RoHS directive	
<b>WEEE:</b> Graphite is compliant with the EU waste electrical and electronic equipment directive	

## 16. Other Information

The information contained herein is accurate to the best of our knowledge. Asbury Carbons makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.	
<b>NFPA Classification</b>	Health Hazard: 1 Fire Hazard: 1 Reactivity Hazard: 0