ED08 Revision Date 11/11/2024

1. Product and Company Identification

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Product Information	
Trade Name	
Product Description	Water-based graphite coating
Recommended Uses	Lubricant, protective coating
Company	Southwestern Graphite, Inc. (a division of Asbury Carbons Inc.)
	2564 Highway 12
	DeQuincy, LA 70633
Emergency Telephone	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

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Classification	Skin Irritant – Category 2	
	Eye Irritant – Category 2	
Hazard Summary	Alkaline.	
	Irritating to eyes and skin. Spilled material is slippery.	
Labeling		
Hazard Pictogram(s)		



Signal Word(s) Warning

Hazard Statement(s) H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary Statement(s) P262: Do not get in eyes, on skin, or on clothing.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353: IF ON SKIN (or hair): Remove all contaminated clothing.

Rinse skin with water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### 3. Composition / Information on Ingredients

Components	CAS No.	EINECS No.	Weight %	Hazard Statement(s)
Water	7732-18-5	231-791-2	66%	
Graphite	7782-42-5	231-955-3	20-30%	
Silicic acid, sodium salt	1344-09-8	215-687-4	1 - 10%	H315: Causes skin irritation.
				H319: Causes serious eye irritation.

#### 4. First Aid Measures

Inhalation	Remove patient from exposure, keep warm and at rest. Obtain medical attention.
Skin Contact	Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.
Eye contact	Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

Ingestion	Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of
	water to drink. Obtain medical attention.

## 5. Fire Fighting Measures

Graphite is not flammable under normal conditions		
Extinguishing media	Dry chemical extinguisher, water, sand, limestone powder	
Special fire hazards	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.	
Products of Combustion	Carbon dioxide (CO2), carbon monoxide (CO).	
Advice for Fire Fighters	Use self contained air pack, gloves, safety goggles	
NFP Rating	110	

### 6. Accidental Release Measures

Personal precautions	Wear approved dust mask, safety goggles or face shield, and suitable protective clothing. Graphite is electrically conductive and any cleanup methods should avoid contacting graphite with electrical circuitry.	
Environmental	Do not allow to enter drains, sewers or watercourses. Advise authorities if spillage	
precautions	has entered water course or sewer or has contaminated soil or vegetation.	
Methods for cleaning up	Caution - spillages may be slippery. Contain spillages with sand, earth or any	
	suitable adsorbent material. Transfer to a container for disposal or recovery.	

# 7. Handling and Storage

<u> </u>		
Precautions for safe	Avoid contact with eyes, skin and clothing.	
handling	Avoid generation of mist. Provide adequate ventilation.	
_	Emergency shower and eye wash facilities should be readily available.	
	Graphite is a conductor of electricity. Avoid contact with electrical circuitry.	
Fire and explosion protection	No special instructions - material is not combustible.	
Storage precautions	Do not allow material to freeze. Keep container tightly closed. Provide an adequate bund wall. Unsuitable containers: aluminum.	

# 8. Exposure Controls/ Personal Protection

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
Silicic acid, sodium salt	1344-09-8 2.0 mg/m <sup>3</sup> Recommended by analogy with sodium hydroxide.		
Engineering controls	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.		
Respiratory Protection	Use approved dust mask, type N95 recommended.		
Eye Protection	Chemical goggles.		
Skin Protection	Wear suitable protective clothing, gloves, and overalls. Plastic or rubber gloves.		
Hygiene measures	Wear personal protective equipment. Do not eat, drink or smoke at the work place.  Product spilled on pedestrian surfaces may pose a significant slip hazard.		

# 9. Physical and Chemical Properties

Appearance	Gray to black liquid	Lower explosion limit	n/a
Odor	Mild	Upper explosion limit	n/a
рН	10.5 – 11.5	Vapor pressure	As water
Freezing point	32°F (0°C)	Vapor density	As water
Boiling point	212°F (100°C)	Water solubility	Dispersible
Flash point	n/a	Partition coefficient:	No data available
		n-octanol/water	

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<b>Evaporation rate</b>	As water	Autoignition temperature	No data available
Specific gravity	1.21 g/ml	% volatile by weight	66%

10. Stability and Reactivity

Chemical stability	Stable. Will not polymerize or self react spontaneously.
Possibility of hazardous reactions	When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions can react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air.
Conditions to avoid	Graphite will begin to oxidize at temperatures above 450 C.
Materials to avoid	Oxidizing agents
Hazardous decomposition products	Carbon Dioxide (CO <sub>2</sub> ), Carbon Monoxide (CO)

11. Toxicological Information

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Acute Toxicity:			
Test (species)	Results	Remarks	
Ingestion (rat)	LD50 3400 mg/kg bw Material will cause irritation.	All symptoms of acute toxicity are due to high alkalinity.	
Inhalation (rat)	LC50 > 2000 mg/m3 Mist is irritant to the respiratory tract.	All symptoms of acute toxicity are due to high alkalinity.	
Eye contact (rabbit)	Material will cause irritation.		
Skin contact (rat)	LD50 >5000 mg/kg bw Material will cause irritation.		
Sensitization (mouse)	Not sensitizing		
Chronic Toxicity:			
Test (species)	Results	Remarks	
Mutagenicity (in vitro)	Negative	No evidence of genotoxicity.	
Carcinogenicity Not carcinogenic		No structural alerts. IARC, NTP, OSHA, ACGIH do not list this product as known or suspected carcinogen.	
Reproductive toxicity (rat)	NOAEL > 1000 mg/kg bw	OECD 422	
STOT - single exposure	Not classified		
STOT - repeated exposure	Not classified NOAEL oral (rat) >159 mg/kg bw/d		

12. Ecological Information

	Graphite will not degrade under normal conditions. Graphite is stable, unreactive in water				
degradability U	under ambient conditions, and is insoluble.				
S	Soluble silicates are inorganic and, upon dilution, rapidly depolymerise into molecula				
S	species indistinguishable from natural dissolved silica.				
	No evidence of bioaccumulation.				
potential					
Mobility N	Not expected to be mobile in soil.				
Other effects	The alkalinity of this material may have a local effect on ecosystems sensitive to changes in				
				objecting ocholive to changes in	
	H.	,		osystems sensitive to originges if	
				objecting scholave to changes if	
р		,		objecting scholave to changes in	
p Aquatic Toxicity:		Exposure time	Method	Remarks	
Aquatic Toxicity: Test	Н.			Remarks	
	H. Effect dose	Exposure time	Method	,	

# 13. Disposal Considerations

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

### 14. Transport Information

UN number	Not regulated
Proper shipping name	n/a
Transport hazard class	n/a
Packing group	n/a
Marine pollutant?	Not classified as a marine pollutant

#### 15. Regulatory Information

Inventory Information (graphite):		
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	
RoHS: Graphite is compliant with the EU RoHS directive		
WEEE: 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.

NFPA Classification	Health Hazard:	1
	Fire Hazard:	1
	Reactivity Hazard:	0