



Safety Data Sheet

Product Name: AF-xx-1046-BB, AF-xx-1052, RC-xx-1052-BB
 (Coconut Shell Granular Activated Carbon)
 Effective March 2015

Section 1: Identification

1a	Product Names	AF-10-1046-BB, AF-20-1046-BB, AF-10-1052, AF-20-1052, RC-10-1052-BB, RC-20-1052-BB
1b	Common Name	Coconut Shell Granular Activated Carbon
1c	Intended use	Chlorine and organics removal from water
1d	Manufacturer Address	Aries FilterWorks 117 Jackson Road, Berlin, NJ 08009 USA
	Phone	856-626-1550
	Email	info@ariesfilterworks.com

Section 2: Hazard Identification

2a OSHA Hazard classification Not hazardous or dangerous

Product Hazard Rating	Scale
Health = 0	0 = Negligible
Fire = 1	1 = Slight
Reactivity = 0	2 = Moderate
Special – N/A	3 = High
	4 = Extreme

2b	Product description	Black irregular pieces with little or no odor.
2c	Precautions for use	Safety glasses and gloves recommended. Wet carbon adsorbs oxygen from air and can cause a hazard in confined spaces. Avoid breathing dust when handling dry carbon. Dust mask or respirator recommended for poorly ventilated spaces.
2c	Potential health effects	Will cause eye irritation. Ingestion is not likely to pose a health risk. Dust may be mildly irritating.
2d	Environmental effects	Little or none.

Section 2A: Hazard classification UN OSHA globally harmonized system



WARNING

(contains granular activated carbon)

H320: Causes eye irritation (Category 2B)

H335: May cause respiratory irritation (Category 3)*

*** chronic risk from breathing dust**

Precautionary Statements

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P333+313: If skin irritation or a rash occurs: Get medical advice/attention.

P337+313: If eye irritation persists get medical advice/attention.

P403+233: Store in a well-ventilated place. Keep container tightly closed.

Please refer to the safety data sheet for additional information regarding this product

Aries FilterWorks .
117 Jackson Road
Berlin, NJ 08009
856 626-1550
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Section 3: Composition/ Information on Ingredients

3a	Chemical name	Granular Activated carbon
3b	Ingredients	
	Granular Carbon	CAS# 7440-44-0 (80 - 98%)
	Water	CAS# 7732-18-5 (2 – 20%)

Section 4: First Aid Measures

4a	Inhalation	Dust may be mildly irritating to the upper respiratory tract.
4b	Skin	Wash with soap and water - seek medical attention if a rash develops.
4c	Eye contact	Wash immediately with water - seek attention if discomfort continues.
4d	Ingestion	No adverse effects expected for small amounts, larger amounts can cause stomach irritation. Seek medical attention if discomfort occurs.

Section 5: Fire Fighting Measures

5a	Flammability	NFPA Fire rating = 1
5b	Extinguishing media	Water, CO2, foam, dry powder
5c	Fire fighting Procedures	Follow general fire fighting procedures indicated in the work place.
5d	Protective Equipment	MSHA/NIOSH approved self-contained breathing gear, full protective clothing.
5e	Combustion Products	Carbon oxides and other toxic gasses and vapors.
5f	Unusual Hazards	Product is not combustible until moisture is removed. Carbon begins to burn at approximately 230° C. Auto ignition can occur above 500° C.

Section 6: Accidental Release Measures

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|----|---------------------------|--|
| 6a | Personal Precautions | Wear gloves and safety glasses to minimize skin or eye contact. |
| 6b | Incompatible Chemicals | Strong oxidants can create risk of combustion products similar to burning, |
| 6c | Environmental Precautions | Keep out of public sewers and waterways. |
| 6d | Containment Materials | Use plastic, paper, or metal containers. |
| 6e | Methods of Clean-up | Sweep up material and transfer to containers. |

Section 7: Handling and Storage

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|----|---------------------|---|
| 7a | Handling | Avoid prolonged skin contact. |
| 7b | Storage | Store in a dry place (0° to 50° C) in the original shipping container. This product is not thermally sensitive. Freezing does not damage granular carbon. |
| 7c | TSCA considerations | Carbon should be listed on the TSCA Inventory in compliance with State and Federal Regulations. |

Section 8: Exposure Controls/Personal Protection

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|----|------------------------------|---|
| 8a | OSHA exposure limits | None noted. |
| 8b | Engineering Controls | Provide adequate ventilation. |
| 8c | Personal Protection Measures | |
| | Eye Protection | Safety glasses or goggles. |
| | Respiratory Protection | Not required for normal use. |
| | Protective Gloves | Not required for limited exposure but recommended for extended contact. |

Section 9: Physical and Chemical Properties

Appearance	Irregular black granular pieces.
Flammability or explosive limits	Flammable above 220° C Odor None
Physical State	Solid
Vapor pressure	Not available
Odor threshold	Not available
Vapor density	Not available
pH	Near neutral (6 to 8 typical)
Relative density	Approx 400 grams/Liter
Melting point/freezing point	Does not melt or freeze.
Solubility	Insoluble in water and most solvents
Boiling point	Does not boil
Flash point	>220° C
Evaporation rate	Does not evaporate
Partition Coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	>220° C
Decomposition temperature	Above 220° C
Viscosity	Not applicable

Section 10: Stability and Reactivity

10a Stability	Stable under normal conditions.
10b Conditions to Avoid	Wet carbon adsorbs oxygen from air. Contact with strong oxidizing agents can cause rapid combustion.
10c Hazardous by-products	Carbon oxides, sulfur oxides, chlorinated hydrocarbons.
10d Incompatible materials	Strong oxidizing agents (such as HNO ₃)
10e Hazardous Polymerization	Does not occur

Section 11: Toxicological Information

11a	Likely Routes of Exposure	Oral, skin or eye contact.
11b	Effects of exposure	
	Delayed	None known.
	Immediate (acute)	None known.
	Chronic	None known.
11c	Toxicity Measures	
	Skin Adsorption	Unlikely.
	Ingestion	Oral toxicity believed to be low but no LD50 has been established.
	Inhalation	Unknown, vapors are very unlikely due to physical properties (insoluble solid).
11d	Toxicity Symptoms	
	Skin Adsorption	Mild rash.
	Ingestion	Indigestion or general malaise.
	Inhalation	Dust is a respiratory irritant.
11e	Carcinogenicity	None known

Section 12: Ecological information

12a	Eco toxicity	Not harmful to plant or animal life.
12b	Mobility	Insoluble.
12c	Biodegradability	Not biodegradable.
12d	Bioaccumulation	Insignificant.
12e	Other adverse effects	Not Harmful to the environment.

Section 13: Disposal Considerations

13a	General considerations	Material is non-hazardous.
13b	Disposal Containers	Most plastic and paper containers are suitable.
13c	Disposal methods	No specific method necessary
13d	Sewage Disposal	Not recommended
13e	Precautions for incineration	May release toxic vapors when burned

13f Precautions for landfills Carbon used to remove hazardous materials may then become a hazardous mixture.

Section 14: Transportation Information

14a Transportation Class Not classified as a dangerous good for transport by land, sea, or air.

14b TDG Not regulated.

14c IATA Not regulated.

14d DOT (49 CFR 172.101) Not Regulated.

14e IMDG Not regulated

Section 15: Regulatory Information

15a CERCLA Not regulated

15b SARA Title III Not regulated

15c Clean Air act Not regulated

15d Clean Water Act Not regulated

15e TSCA Not regulated

15f Canadian Regulations
WHMIS Not a controlled product
TDG Not regulated

15g Mexican Regulations Not Dangerous

Section 16: Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that their activities comply with federal, state, and local laws.

16 Date of Revision 31 May 2018