



A RESINTECH COMPANY

## Safety Data Sheet

Product Names: AF-10-1042-BB, AF-20-1042-BB, AF-10-1053, AF-20-1053

Effective March 2015

### Section 1: Identification of Substance

1a	Product Names	AF-10-1042-BB, AF-20-1042-BB, AF-10-1053, AF-20-1053
1b	Common Name	Centaur NDS 12x40 Activated Carbon
1c	Intended use	Absorbent, Removal of chlorine and organics from water.
1d	Manufacturer Address	Aries FilterWorks 117 Jackson Road Berlin, NJ 08009
	Phone	856-626-1550
	Email	info@ariesfilterworks.com

### Section 2: Hazard Identification

#### 2a Classification of the substance or mixture

GHS-US classification

Combustible Dust H242

Not classified as a simple asphyxiant. Product does not displace oxygen in the ambient atmosphere, but slowly adsorbs oxygen from a confined space when wet. Under conditions of anticipated and recommended use, product does not pose an asphyxiation hazard.

#### 2b Label elements

GHS-US labeling

Signal word (GHS-US)

Hazard Statements (GHS-US)

#### Warning

H232 – May form combustible dust concentrations in air.

#### 2c Other hazards

Other hazards not contributing to the classification

Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

#### 2c Unknown acute toxicity (GHS-US)

No data available

### Section 3: Composition/ Information on Ingredients

#### 3a Substance

Name	Product Identifier	%
Activated Carbon	(Cas No 7440-44-0)	<100

### Section 4: First Aid Measures

#### 4a Description of first aid measures

First-aid measures general	If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
First-aid measures after Inhalation	If INHALED. Remove to fresh air and keep at rest in a comfortable position for breathing.
First-aid measures after skin contact	If ON SKIN (or clothing. Remove affected clothing and wash all exposed skin with water for at least 15 minutes.
First-aid measures eye contact	If in EYES. Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
First-aid measures after ingestion	If SWALLOWED. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center of medical professional. Get medical attention if you feel unwell.

#### 4b Most important symptoms and effects, both acute and delayed

Symptoms/Injuries	Not expected to present a significant hazard under anticipated conditions of normal use. However, dust may cause irritation and redness of the eyes, irritation of the skin and respiratory system. The effects of long-term, low level exposures to this product have not been determined.
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#### 4c Indication of any immediate medical attention and special treatment needed

No additional information available

### Section 5: Fire Fighting Measures

#### 5a Extinguishing media

Suitable extinguishing media	Water spray, carbon dioxide. Foam, sand
Unsuitable extinguishing media	None known.

#### 5b Special hazards arising from the substance or mixture

Fire hazard	Dust may be combustible under specific conditions. May be ignited by heat, sparks or flames.
Explosion hazard	Dust may form explosive mixture in air.
Reactivity	No dangerous reactions known under normal conditions of use. Carbon oxides may be omitted upon combustion of material.

#### 5c Advice for firefighters

Firefighting instructions	Wear NIOSH approved self-contained breathing apparatus suitable for the surrounding fire. Use water spray or fog for cooling exposed containers. Evacuate area.
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## Section 6: Accidental Release Measures

### 6a Personal precautions, protective equipment and emergency procedures

General measures

Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see section 8).

For non-emergency personnel

No additional information available.

For emergency responders

No additional information available.

### 6b Environmental Precautions

Prevent entry to sewers and public waters. Avoid releases to the environment. Product is not soluble, but can cause particulate emission of discharged into waterways. Dike all entrances to sewers and drains to avoid introducing material to waterways. Notify authorities if product enters sewers of public waters.

### 6c Methods and material for containment and cleaning up

For containment

Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.

Methods of cleaning up

Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. Dispose of material in compliance with local, state and federal regulations.

### 6d Reference to other sections

No additional information available

## Section 7: Handling and Storage

### 7a Precautions for safe handling

Precautions for safe handling

Avoid dust formation. Avoid contact with skin, eyes, and clothing. Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking when leaving work. Keep away from sources of ignition. No smoking.

### 7b Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a cool, dry and well-ventilated place. Keep away from ignition sources.

## Section 8: Exposure Controls/Personal Protection

### 8a Control parameters

<b>Activated Carbon (7440-44-0)*</b>	
OSHA PEL (TWA) (mg/m <sup>3</sup> )	< 5 (Respirable Fraction) < 15 (Total Dust)

\*Exposure limits are for inert or nuisance dust. No specific exposure limits have been established for this activated carbon product by OSHA or ACGIH

### 8b Exposure Controls

Appropriate engineering controls.

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas. Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

Personal protective equipment

Gloves; Safety glasses; Insufficient ventilation, wear respiratory protection.

Hand protection

Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Skin and body protection

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection

Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

## Section 9: Physical and Chemical Properties

### 9a Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Granular, powder, or pelletized substance
Color	:	Black
Odor	:	Odorless
Odor threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butyl acetate=1)	:	Not applicable
Melting point	:	Not applicable
Freezing point	:	Not applicable
Boiling point	:	Not applicable
Flash point	:	No data available
Auto-ignition temperature	:	> 220 °C
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	> 220 °C
Vapor pressure	:	Not applicable
Relative vapor density at 20 °C	:	Not applicable
Apparent density	:	0.4 - 0.7 g/cc
Solubility	:	Insoluble.
Log Pow	:	Not applicable
Log Kow	:	Not applicable
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	Not applicable
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Explosive limits	:	No data available

### 9b Other information

No additional information available

## Section 10: Stability and Reactivity

### 10a Reactivity

No dangerous reactions known under normal conditions of use.

### 10b Chemical stability

Stable under use and storage conditions as recommended in section 7.

### 10c Possibility of hazardous reactions

None known.

### 10d Conditions to avoid

Avoid dust formation. Heat. Ignition sources. Exposure to high concentrations of organic compounds may cause bed temperature to rise.

### 10e Incompatible materials

Alkali metals. Strong oxidizing agents.

### 10f Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

## Section 11: Toxicological Information

### 11a Information on toxicological effects

Acute toxicity Not classified

<b>Activated Carbon (7440-44-0)</b>	
LD50 oral rat	> 2000 mg/kg

Skin corrosion/irritation Not classified  
Serious eye damage/irritation Not classified  
Respiratory or skin sensitization Not classified  
Germ cell mutagenicity Not classified  
Carcinogenicity Not classified

#### **Silica: Crystalline, quartz (14808-60-7)**

IARC group 1 - Carcinogenic to humans

The International Agency for Research on Cancer (IARC) has classified "silica dust, crystalline, in the form of quartz or cristobalite" as carcinogenic to humans (group 1). However these warnings refer to crystalline silica dusts and do not apply to solid activated carbon containing crystalline silica as a naturally occurring, bound impurity. As such, we have not classified this product as a carcinogen in accordance with the US OSHA Hazard Communication Standard (29 CFR §1910.1200) but recommend that users avoid inhalation of product in a dust form.

Reproductive toxicity Not classified  
Specific target organ toxicity (single exposure) Not classified  
Specific target organ toxicity (repeated exposure) Not classified  
Aspiration hazard Not classified  
Symptoms/Injuries Not expected to present a significant hazard under anticipated conditions of normal use. However, dust may cause irritation and redness of the eyes, irritation of the skin and respiratory system. The effects of long-term, low-level exposures to this product have not been determined.

## Section 12: Ecological information

12a Toxicity No additional information available  
12b Mobility No additional information available  
12c Biodegradability No additional information available  
12d Bioaccumulation No additional information available  
12e Other adverse effects No additional information available

## Section 13: Disposal Considerations

### 13a Waste treatment methods

Waste treatment and disposal methods

Vacuum or shovel material into a closed container. Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment. Subject to Calgon Carbon technical approval, non-powdered activated carbons may be reactivated to allow recycle and reuse.

Additional information

Activated carbon is an adsorbent media; hazard classification is generally determined by the adsorbate. Consult U.S. EPA guidelines listed in 40 CFR 261.3 for more information on hazardous waste disposal.

## Section 14: Transportation Information

14a In accordance with DOT	Not classified as hazardous for domestic land transport
14b Transport by sea	Not classified as hazardous for water transport
14c Transport by air	Not classified as hazardous for air transport

## Section 15: Regulatory Information

### 15a US Federal Regulations

<b>CENTAUR NDS 12X40</b>	
All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory or are exempt	
<b>Cobalt (7440-48-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	0.1%

### 15b International Regulations

No additional Information available

### 15c US State Regulations

California Proposition 65

WARNING: This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, birth defects, or other reproductive harm.

#### Silica: Crystalline, quartz (14808-60-7)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	NA

#### Cobalt (7440-48-4)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	NA

#### Titanium dioxide (13463-67-7)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	NA

#### Aluminum oxide (1344-28-1)

U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right to Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

#### Calcium sulfate (7778-18-9)

U.S. - Massachusetts - Right to Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

#### Silica: Crystalline, quartz (14808-60-7)

U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right to Know List

## **Section 16: Other Information**

The information provided in this safety data sheet is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty or guarantee of accuracy, express or implied is given. 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