

# AF SERIES CARBON / KDF 85 CARTRIDGE

Product Name: AF-10-2210, AF-10-2211, AF-20-2212, AF-10-2212-BB, AF-20-2215-BB Layered Cartridge of KDF 85 & Activated Granular Carbon

Activated Granular Carbon Effective Date: 01/02/12

1. Company Information:

**Company Address:** 

Information Numbers:

Aries Filterworks 1 ResinTech Plaza 160 Cooper Road West Berlin, NJ 08091 USA

Phone Number: Fax Number: Email: Website: 856-768-9600 856-768-9601 aries@resintech.com www.ariesfilterworks.com

## 2. Composition/Ingredients:

Activated carbon 100%

- PCL & TLV values not reported as TWA values unless otherwise noted.
- TWA/TLV

## Cas. <u># 7440-44-0</u>

Not Established

Proper Shipping Name:	Not Regulated
Dot Hazard Class:	Not Applicable
Dot Identification Number:	Not Applicable
Packing Group:	Not Applicable

3. Physical/Chemical Data:

Boiling Point:	Not Applicable
Vapor Pressure (MM HG):	Not Applicable
Evaporation Rate (water = 1):	Not Applicable
Appearance & Odor:	Black Granules with no odor
Specific Gravity:	(water = 1) 1.8-2.1
Melting Point (deg. F)	Not applicable
Solubility in Water:	Insoluble
Packing Density:	4 to .7 g/cc



Exposure Guidelines:			
OSHA PEL ACGIH TLV			
5 MG/M3	10 mg/M3		
(Resp.)	(Total)		
(* PELs and TLVs are 8-hour TWAs unless otherwise noted.)			

Unusual Fire & Explosion Hazards:

Hazardous Combustion Products:

**Special Fire Fighting Procedures:** 

4. Fire & Explosion Hazard Data

Flammable Limits:

Extinguishing Media:

5. Reactivity Data

7. Control Measures

Product Hazard RatingScaleToxicity = 00 = NegligibleFire = 01 = SlightReactivity = 02 = ModerateSpecial – N/A3 = High4 = Extreme

Non-Flammable

Contact with strong oxidizers: such as ozone or liquid oxygen, chlorine, permanganate may cause rapid combustion.

Irritating and/or toxic gases due to decomposition of the product may be generated during a fire.

Water, CO<sub>2</sub>, Talc, Dry Chemical, Foam

MSHA/NIOSH approved self-contained breathing gear operated in the positive pressure mode.

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	Stability:	Stable
	Conditions to Avoid:	Moist air will reduce operating life
	Hazardous by Products:	Oxides of Carbon
	Materials to avoid contact with:	Acids and strong oxidizing agents
	Hazardous Polymerization:	Does not occur
	Storage:	Store in a cool dry place
6.	Health Hazards & Sara (Right to Know)	
	Emergency First Aid Procedures:	Contact with eyes and skin can cause irritation. Ingestion of powder can cause irritation to GI tract. Inhalation of dust may be irritating to the respiratory tract. Ingestion and inhalation should cause no harmful effects. See a physician if irritation persists. Flush eyes with water for 15 minutes. Wash skin with soap and water.
	Carcinogenicity:	Not Applicable
	Sara – title 3, sections 311 & 312:	All ingredients are non-hazardous

Page 2 of 6



Respiratory protection:	Not required for normal uses if irritation occurs use NIOSH approved respirator.
Eye protection:	Splash goggles recommended for all handling
Ventilation:	Normal
Protective Gloves:	Wear gloves, which are impervious to dust

## 8. Safe handling procedures

In Case of Spills:	Sweep up material and transfer to containers. Clean spills,
	in a manner, that does not disperse dust into the air.

## 9. Warning

Wet activated carbon depletes oxygen from the air and therefore dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.

## **10. Regulatory Information**

TSCA:	The ingredients of this product are on the TSCA inventory
	list.
OSHA:	Non-hazardous according to definitions of health hazard and
	physical hazard provided in the hazard communication
	standard (29 CFR 1910.1200)
CANADA	
WHMIS Classification:	Not Classified
DSL #	6798

While this information and recommendations set forth herein are believed to be accurate as of the date hereof, ResinTech, Inc. makes no warranty with respect hereto and disclaims all liability from reliance thereon.

KDF 55 Effective Date: 01/02/12

# 1. Company Information:

**Company Address:** 

KDF Fluid Treatment, Inc. 300 Frankfort Road Monaca, PA 15061

Information Numbers:

Phone Number: Website: 724-774-1020 www.kdfft.com



Name:			Brass Powd	er				
Transp	ortation Eme	rgency:	Chemtrec:	800-424-9	300			
Chemie	cal Family:		Metal Alloy F	Powder		CAS NO.: Se	e Below	
Formu	la:		Cu/Zn					
2. Ingre	edients							
	<u>Material</u>				CAS NO	<u>).</u>		<u>%</u>
	Copper Zinc				7440-50 7440-66	-		55-99 0.5-45
3. Physical Data Boiling Point: Vapor Pressure (760 MM HG): Evaporation Rate (water = 1): Appearance & Odor: Specific Gravity: Melting Point (deg. F) Solubility in Water:			Not App Not App Not App Brass-co 8.25 – 8 1710 – 2 Insoluble	licable licable blored metallic .9 1970 °F	particles,	no odor.		
4. Fire & Explosion Hazard Data								
	Flammable I	_imits:			N/A			
	Unusual Fire	e & Explos	ion Hazards	:	N/A			
	Hazardous (	Combustio	on Products:		N/A			
	Extinguishir	ng Media:			N/A			
	Special Fire	Fighting F	Procedures:		N/A			
5. Hea	Ith Hazard Da	ita						
	Mate	erial (Form	1)		- PEL STEL mg/M3	ACGI TWA mg/M3	H - TLV STEL mg/M3	
	Сорј	<b>ber</b> Dust Oxide	Fume	1.0 0.1		1.0 0.2		
	Zinc	Oxide	Fume	5.0	10	5.0	10	



Routes of Entry

**Primary:** Inhalation if the dust has become airborne.

Secondary: Ingestion

## Effects of Short Term Exposure:

**Copper (Fume):** Excessive inhalation of copper fumes can produce an acute reaction known as "metal fume fever." Symptoms consist of chills and fever (very similar to and easily confused with flu symptoms) which come on a few hours after large exposures.

**Zinc:** Inhalation of high levels of zinc vapor (zinc oxide fumes) may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea, and dry throat. Overexposure may produce symptoms known as metal fume fever or "zinc shakes"; an acute, self-limiting condition without recognized complications. Symptoms of metal fume fever include: chills, fever, muscular pain, nausea and vomiting.

**Medical Conditions Generally Aggravated By:** Inhalation of dust may be an irritant to pre-existing respiratory conditions.

**Emergency and First Aid Procedures:** Symptoms resulting from inhalation overexposure usually disappear within 24 hours. Symptomatic treatment, such as bed rest and possibly aspirin is recommended to provide relief from fever and chills. Eye contact - flush areas with copious amounts of water. Skin contact - thoroughly wash affected areas with water. In all cases, consult physician for medical attention.

## Effects of Long Term Exposure:

**Copper (Fume):** Chronic exposure to copper may result in anemia, but chronic poisoning does not occur.

Zinc: Chronic exposure to zinc may cause respiratory tract irritation with nasopharyngitis and laryngitis.

## Carcinogenic Assessment:

NTP? No	IARC Mongraph?	No	OSHA? No
6. Reactivity Data			
Stability:		Stable	
Conditions to	Avoid:	N/A	
Incompatibilit	y (Materials to Avoid):	Avoid cor	tact with oxidizers
Hazardous De	ecomposition Products:	None	
Hazardous Po	olymerization:	Will not o	ccur



7. Safe handling procedures			
	In Case of Spills:	Avoid dusting; metal should be contained for recycling.	
	Waste Disposal Method:	Contain in a dry, closed container. Material may be recycled or disposed of in accordance with Federal, State and Local Environmental Regulations. This material may be regulated under CERCLA, TSCA, SARA, and /or RCRA Regulations.	
8. Control Measures			
	Respiratory protection:	Use NIOSH/MSHA approved type respirator against dusting conditions.	
	Eye protection:	Local exhaust or other ventilation that will reduce dust concentrations to less than permissible exposure limits.	
	Ventilation:	Normal	
	Protective Gloves:	Recommended to prevent skin irritation	
	Other Protective Equipment:	Barrier creams may help prevent skin irritation in hypersensitive individuals.	
9.	Special Precautions		
Pr	ecautions to be taken in Handling and Storing:	Store in a cool, dry, well-ventilated space, separate from acids and alkalis.	
Other Precautions:		Practice good personal hygiene when working in areas where this material is used.	

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