SAFETY DATA SHEET

Section 1: Identification

Product Name: AFS WJ-Light, AFS WJ-Medium, AFS WJ-Heavy
Chemical Name/Synonyms: CRC Filter/ Color Remediation Filtration
Company: Absolute Filtration Systems
1048 Buffalo Run Rd
Calhan, CO 80808
(251) 237-3458

In emergency call 911.
For information about this SDS, use this department contact phone#: (251) 237-3458
(Monday – Friday 9:00 am – 5:00 pm MST)

Section 2: Hazard(s) Identification

Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of injection, of inhalation.
OSHA GHS Hazard Classification: Compound C: Carcinogen Category 1A.
Specific Target Organ Toxicity, Repeated Exposure Category 1.
Compound B: Specific Target Organ Toxicity, Single Exposure Category 3.

Other Hazard Classification: None.

Precautionary Statements: May cause skin irritation, may cause eye irritation, may cause breathing irritation.
Description of other hazards: None.
Label Elements: Danger

May cause cancer by inhalation
Causes damage to lungs through prolonged or repeated exposure.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breath dust.
Wear eye protection.
If exposed or concerned: Get medical advice.
Dispose co contents in accordance with local, state and federal regulations.

Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
Compound A	Amorphous SiO_2	7631-86-9	33-36%
Compound B	Attapulgite Sulfuric Acid	8031-18-3 7664-93-9	43-56% <5%
Compound C	Kieselguhr Cristobalite	68855-54-9 14464-46-1	6-16% 4-12%

Section 4: First-Aid Measures

After skin contact: Wash/rinse with soap/water, cover irritated skin with an emollient. Get medical attention if irritation persists.
After eye contact: Remove contact lenses, flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
After inhalation: If inhaled remove to fresh air, blow nose to evacuate dust. If not breathing, give artificial respiration. If breathing is difficult, give oxygen; get medical attention.
After swallowing: Drink generous amount of water to reduce bulk drying effects. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

Most important effects, acute and delayed:
Dust may cause abrasive irritation to eyes. Prolonged skin contact may cause dryness. Dust may cause nose/ throat and upper respiratory tract irritation. Prolonged inhalation of high concentration of dust may cause lung effects. Also Pneumokoniosis.

Indication of immediate medical attention: Not normally required. If dust irritates eyes, seek medical attention.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Non-flammable
Special protective equipment for firefighters: Wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions: If dust is present, respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles. Do not breath dust.
Measures for environmental protection: No special precautionary measures necessary
Measures for cleaning/collecting: Avoid creating dust. Dispose of properly. Hygroscopic

Section 7: Handling and Storage

Handling: Observe label precautions. Do not ingest. Do not breath dust. Avoid contact with eyes.
Protection against explosions and fires: When transferring this material into a flammable solvents, use proper grounding to avoid static electric sparks. The product is not flammable.
Storage/Incompatibilities: Keep sealed until use. Store in dry conditions. Store away from foodstuffs. After use dispose of properly. Keep in well ventilated area. Do not store near hydrofluoric acid, or strong basic solutions. Keep away from turpentine, vegetable oil, and other unsaturated organic compounds (such as fish oil), as this may generate heat and/or fire.

Section 8: Exposure Controls/Personal Protection

Chemical Name

Compound A

· **Components with limit values that require monitoring at the workplace:**

7631-86-9 amorphous silicon dioxide, chemically prepared

IDLH	Short-term value: 3000 mg/m³ IDLH: Immediately Dangerous to Life or Health
PEL	Long-term value: 80mg/m³/%SiO2 mg/m³ OSHA TWA for amorphous silica
REL	Long-term value: 6 mg/m³ NIOSH TWA
TLV	Long-term value: 10* 5** mg/m³ OSHA TWA *Total dust **Respirable fraction

· **Additional Occupational Exposure Limit Values for possible hazards during processing:**

Dust inhalable

PEL	Long-term value: 15 mg/m³ TWA
REL	Long-term value: 15 mg/m³ TWA

Dust respirable

PEL	Long-term value: 5 mg/m³ TWA
REL	Long-term value: 5 mg/m³ TWA

Compound B

Attapulgite	15mg/m³ (total dust) TWA OSHA PEL 5mg/m³ (respirable dust) TWA OSHA PEL
Sulfuric Acid	0.2 mg/m³ (thoracic fraction) TWA ACGIH TLV 1mg/m³ TWA OSHA PEL

Compound C

	OSHA PEL	**MSHA PEL**
Kieselguhr	5mg/m3 respirable dust 15mg/m³ total dust	5mg/m³ respirable dust
Cristobalite	0.05 mg/m³ respirable dust **NIOSH REL:** 0.05 mg/m³ respirable dust	$\frac{1}{2}$ x $\frac{10mg/m^3}{\%SiO2+2}$ Respirable dust $\frac{1}{2}$ x $\frac{30mg/m^3}{\%SiO2+2}$ Total dust

General protective and hygienic measures: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.
Breathing equipment: Dust respirator or equivalent. NIOSH approved respirator appropriate for the form and concentration of the contaminants should be used. For example, if the dust concentration is less than ten (10) times the Permissible Exposure Limit (PEL), use a quarter or half-mask respirator with an N95 dust filter or a single use dust mask rated N95. If dust concentration is greater than ten (10) times the limit a full-face piece respirator fitted with replaceable N95 filters is recommended. If concentration is greater than fifty (50) times the PEL use a power air purifying (positive pressure) respirator with replaceable N95 filter. If dust concentration is greater than two hundred (200) times the PEL use a type C supplied air respirator (continuous flow, positive pressure) with a full face piece, hood, or helmet. Selection and use of respiratory equipment must be in accordance with OSH 1910.134
Protection of hands: Nitrile rubber gloves, 0.11 mm thickness, > 480 min break through time. EU: The protective gloves must comply with the specification of EC Directive 89/686/EEC and the related standard EN374.
Eye protection: Safety glasses or goggles, depending on the concentration of contaminants.

Section 9: Physical and Chemical Properties

Form: Solid, white, light pink, or tan powder.
Odor: Odorless
pH: 5-8
Melting point/melting range: >1,300˚ C
Boiling point/boiling range: >2,200˚ C
Flash point: Not applicable
Evaporation rate: Not applicable
Flammability: Not applicable
Upper/lower flammability or explosive limits: Not applicable
Auto ignition temperature: Not applicable
Danger of explosion: None
Vapor pressure: Not applicable
Vapor density: Not applicable
Relative density: 2.1-2.3
Solubility in/Miscibility with water: <1%

Section 10: Stability and Reactivity

Reactivity: See below
Chemical stability: Compounds are stable under standard ambient conditions (room temperature).
Conditions to avoid: Incompatible materials, moisture, excess dust generation.
Incompatible materials: Exothermic reaction with: alkali hydroxides, hydrofluoric acid, sodium, with, heat, xenon hexafluoride. May react violently with strongly basic solutions. Incompatible with hydrogen fluoride, Zenon hexafluoride, oxygen difluoride, and chlorine trifluoride. Spontaneous combustion can occur when this product is used to absorb turpentine, vegetable oil, or other unsaturated organic compounds (such as fish oil). Do not use this materials with these compounds without proper procedures, as described in Section 13. Spontaneous combustion can occur when this product is used to absorb hydrofluoric acid; do not sue this product with hydrofluoric acid.
Hazardous decomposition products: Not applicable.

Section 11: Toxicological Information

Potential routes of exposure/potential health effects

Skin: May cause irritation and dryness.

Eye: May cause mechanical irritation.

Inhalation: May cause dryness ad irritation to mucous membranes and respiratory tract in case of severe exposure. Acute inhalation of high concentrations of respirable crystalline silica may cause acute silicosis.

Ingestion: May cause irritation of the mouth, throat, and stomach. May be harmful if swallowed in large amounts.

Carcinogenic effects: IARC: Group 1, Quartz, non-respirable; OSHA: No component of this product presents at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens; NPT: Known carcinogen, Quartz, ron-respirable; ACGIH: A2, Suspected human carcinogen, Quartz, non-respirable.
This product contains crystalline silica. Respirable crystalline silica may cause lung cancer and lung disease (silicosis) if inhaled for prolonged periods. Symptoms of silicosis include wheezing, cough and shortness of breath. Crystalline silica is only known to cause cancer when inhaled in a respirable form. It is not known to cause cancer by any other route of exposure.

Mutagenic effects: Not available

Reproductive toxicity: Not available

Sensitization: Not available

Target organs: Not available

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: Ecotoxicity in water (LC50): 440 mg/l 72 hours [Algae (Pseudokirchneriella subcapitata)]. 5000mg/l 96 hours [Fish (Brachydanio rerio)]. 7600 mg/l 48hours [Daphnia (Ceriodaphnia dubia)].

Mobility: Not available

Biodegradation: Non-biodegradable, inert.

Bioaccumulation: Little potential for bioaccumulation.

Section 13: Disposal Considerations (non-mandatory)

Disposal: Waste must be disposed of in accordance with federal, state, and local environmental control regulations. The information presented only applies to the material as supplied. The identification based on the characteristics or listings may not apply if the materials has been used or otherwise contaminated.

Section 14: Transport Information (non-mandatory)

DOT regulations: Classification 55 (no restrictions)

- **Hazard class:** 55 (none)
- **Land transport ADR/RID (cross-border):** Not dangerous
- **ADR/RID class:** Not dangerous
- **Maritime transport IMDG:** Not dangerous

Air transport ICAO-TI and IATA-DGR: Not dangerous

- **ICAO/IATA Class:** Not dangerous

Section 15: Regulatory Information (non-mandatory)

US Federal Regulations

SARA Section 355 (extremely hazardous substances): Not applicable
SARA Section 313 (specific toxic chemical listings): Not applicable
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs): Not applicable
TSCA (Toxic Substances Control Act): Kieselguhr and Cristobalite appear on the EPA TSCA inventory list.

California Prop 65: WARNING: this product contains a chemical known in the State of California to cause cancer. *Components: Quartz, non-respirable, SiO_2.*

N**FPA**

H	1 – Health
M	0 – Fire Hazard
I	0 – Reactivity
S	E – Protective Equipment

Section 16: Other Information

Origin Date: January 3rd, 2020
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Revision: 1

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