


SIR-950

(Granular Activated Alumina)

Effective date 1 January 2021

SECTION 1: Identification	
1A: Product Names	ResinTech SIR-950
1B: Common Name	Bone Char Carbon
1C: Intended use	Chlorine, fluoride, and organics removal from water
1D: Manufacturer Address	ResinTech, Inc. 1801 Federal Street, Camden, NJ 08105 USA
Contact Information:	856-768-9600 ixresin@resintech.com

SECTION 2: Hazard Identification	
2A: OSHA Hazard classification 0 = Negligible 1 = Slight 2 = Moderate 3 = High 4 = Extreme	Not hazardous or dangerous Health - 0 (0 = Negligible) Fire - 1 (1 = Slight) Reactivity - 0 (0 = Negligible) Special - N/A
 WARNING	(contains bone char carbon) H320: Causes eye irritation (Category 2B) H335: May cause respiratory irritation (Category 3)* * chronic risk from breathing dust

Revision 1.0

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SECTION 2: Hazard Identification Continued

Precautionary Statements	<p>P261: Avoid breathing dust/fume/ gas/mist/vapours/spray</p> <p>P264: Wash hands thoroughly after handling.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection</p> <p>P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</p> <p>P333+313: If skin irritation or a rash occurs: Get medical advice/attention.</p> <p>P337+313: If eye irritation persists get medical advice/attention.</p> <p>P403+233: Store in a well ventilated place. Keep container tightly closed.</p>
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 media. Dust mask or respirator recommended for poorly ventilated spaces.
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 3: Composition/ Information on Ingredients

3A: Chemical name	Bone char carbon
3B: Ingredients: Water	CAS# 8021-99-6 (80 - 90%)
Bone Charcoal	CAS# 7732-18-5 (10 – 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, CO ₂ , 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	
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	
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 bone char 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	
8A: Personal Precautions	None noted.
8B: Incompatible Chemicals	Provide adequate ventilation.
8C: Personal Protection Measures	Eye Protection- Safety glasses or goggles. Respiratory Protection - Dust mask or respirator recommended for poorly ventilated spaces. 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 450° C
Odor	None
Physical State	Solid
Vapor pressure	N/A
Odor threshold	N/A
Vapor density	N/A
pH	Near neutral (6 to 8 typical)
Relative density	Approx 600 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	>450° C
Evaporation rate	Does not evaporate
Partition Coefficient (n-octanol/water)	N/A

SECTION 9: Physical and Chemical Properties	
Auto-ignition temperature	>450° C
Decomposition temperature	Above 450° C
Viscosity	N/A

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.

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	
<p>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.</p>	
16A: Date of Revision	1 January 2021