

**Safety Data Sheet**  
**Product Names: SIR-950**  
 (Bone Char Carbon)  
 Effective date 10 January 2020

**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. 160 Cooper Road, West Berlin, NJ 08091 USA
	Phone	856-768-9600
	Email	ixresin@resintech.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 media. 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 bone char 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

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### Section 3: Composition/ Information on Ingredients

3a	Chemical name	Bone char carbon
3b	Ingredients	
	Bone Charcol	CAS# 8021-99-6 (80 - 90%)
	Water	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, 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

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	OSHA exposure limits	None noted.
8b	Engineering Controls	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	Not available
Odor threshold	Not available
Vapor density	Not available
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)	Not applicable
Auto-ignition temperature	>450° C
Decomposition temperature	Above 450° 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 <sub>3</sub> )
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 TDG	Not a controlled product Not regulated
15g	Mexican Regulations	Not Dangerous

## **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.

16a Date of Revision      10 January 2020