



Safety Data Sheet
Product Name: SIR-600
(Granular Zeolite)
Effective date 31 March 2015

Section 1: Identification

1a	Product Names	ResinTech SIR-600
1b	Common Name	Granular Clinoptilolite
1c	Intended use	Removal of cesium, potassium, and ammonium 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 = 1	0 = Negligible
Fire = 0	1 = Slight
Reactivity = 0	2 = Moderate
Special – N/A	3 = High
	4 = Extreme

2b Product description Grey green granules with no odor.

2c Precautions for use Safety glasses and gloves recommended. Avoid breathing dust. Dust mask or respirator recommended for poorly ventilated spaces

2c Potential health effects Will cause eye irritation.
Dust can irritate respiratory tract.
Ingestion is not likely to pose a health risk.

2d Environmental effects Little or none.

Section 2A: Hazard classification UN OSHA globally harmonized system



Warning (contains granular zeolite)

H320: Causes eye irritation (Category 2B)

H335: May cause respiratory irritation

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	Granular Clinoptilolite
3b	Ingredients	
	Clinoptilolite	CAS# 1318-02-01 (95 – 99%)
	Water	CAS# 7732-18-5 (1 – 5%)

Section 4: First Aid Measures

4a	Inhalation	Move to fresh air. Give oxygen if necessary. Seek medical attention if necessary.
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	Not flammable, will not burn.
5b	Extinguishing media	Not applicable, material does not burn.
5c	Fire fighting Procedures	Follow general fire fighting procedures indicated in the work place.
5d	Protective Equipment	Provide as appropriate for materials that are burning.
5e	Combustion Products	None.
5f	Unusual Hazards	Product will melt at > 1000 °C.

Section 6: Accidental Release Measures

6a	Personal Precautions	Wear gloves and safety glasses to minimize skin or eye contact.
6b	Incompatible Chemicals	Concentrated acids and bases can cause various chemical reactions and liberate heat.
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 cool dry place (0° to 50° C) in the original shipping container. This product is not thermally sensitive and is not damaged by freezing.
7c	TSCA considerations	Media 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	Not required for normal use.
	Protective Gloves	Recommended for extended contact.

Section 9: Physical and Chemical Properties

Appearance	Grey green granules.
Flammability or explosive limits	Not flammable
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 800 grams/Liter
Melting point/freezing point	Melting point > 1000 °C
Solubility	Insoluble in water and most solvents
Boiling point	Not determined
Flash point	Not applicable
Evaporation rate	Does not evaporate
Partition Coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	Does not ignite
Decomposition temperature	Not determined
Viscosity	Not applicable

Section 10: Stability and Reactivity

10a Stability	Stable under normal conditions.
10b Conditions to Avoid	Exposure to concentrated acids or bases.
10c Hazardous by-products	Not applicable.
10d Incompatible materials	Concentrated acids and bases.
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, dust can irritate upper respiratory tract.
11d	Toxicity Symptoms	
	Skin Adsorption	Mild rash.
	Ingestion	Indigestion or general malaise.
	Inhalation	Unknown.
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	None.
13f	Precautions for landfills	Adsorbents used to remove hazardous materials may then become hazardous mixtures.

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

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 31 March 2015