


SIR-600

(Granular Zeolite)

Effective date 1 January 2021

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. 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 - 1 (1 = Slight) Fire - 0 (0 = Negligible) Reactivity - 0 (0 = Negligible) Special - N/A
 WARNING	(contains granular zeolite) H320: Causes eye irritation (Category 2B) H335: May cause respiratory irritation

SECTION 2: Hazard Identification Continued

Precautionary Statements	<p>P264: Wash hands thoroughly after handling.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection</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> <p>P411: Store at temperatures not exceeding 50 °C/ 122 °F.</p>
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
Potential health effects	<p>Will cause eye irritation.</p> <p>Dust can irritate respiratory tract.</p> <p>Ingestion is not likely to pose a health risk.</p>
2D: Environmental effects	Little or none.

SECTION 3: Composition/ Information on Ingredients

3A: Chemical name	Granular Clinoptilolite
3B: Ingredients: Water	CAS# 7732-18-5 (1 – 5%)
Clinoptilolite	CAS# 1318-02-01 (95 – 99%)

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.

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 - 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	N/A
Odor threshold	N/A
Vapor density	N/A
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	Approx 500° C
Evaporation rate	Does not evaporate
Partition Coefficient (n-octanol/water)	N/A
Auto-ignition temperature	Does not ignite
Decomposition temperature	Not determined
Viscosity	N/A

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: Combustion Products	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	
<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