# Section 1: Identification

1a Product Names  
ResinTech PowerMax NXS30 Na

1b Common Name  
Granular Clinoptilolite

1c Intended use  
Removal of cesium, potassium, and ammonium from water

1d Manufacturer  
ResinTech, Inc.
Address  
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.

<table>
<thead>
<tr>
<th>Product Hazard Rating</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health = 1</td>
<td>0 = Negligible</td>
</tr>
<tr>
<td>Fire = 0</td>
<td>1 = Slight</td>
</tr>
<tr>
<td>Reactivity = 0</td>
<td>2 = Moderate</td>
</tr>
<tr>
<td>Special – N/A</td>
<td>3 = High</td>
</tr>
<tr>
<td></td>
<td>4 = Extreme</td>
</tr>
</tbody>
</table>

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. May alter the pH of any water that contacts it.
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.

ResinTech, Inc.
160 Cooper Road
West Berlin, NJ 08091-9234
856 768-9600
Ixresin@resintech.com
**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 ºC.
**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 (0º to 50º 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Grey green granules.</td>
</tr>
<tr>
<td>Flammability or explosive limits</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Near neutral (6 to 8 typical)</td>
</tr>
<tr>
<td>Relative density</td>
<td>Approx 800 grams/Liter</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Melting point &gt; 1000 ºC</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water and most solvents</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Does not evaporate</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Does not ignite</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### Section 10: Stability and Reactivity

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>10a Stability</td>
<td>Stable under normal conditions.</td>
</tr>
<tr>
<td>10b Conditions to Avoid</td>
<td>Exposure to concentrated acids or bases.</td>
</tr>
<tr>
<td>10c Hazardous by-products</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>10d Incompatible materials</td>
<td>Concentrated acids and bases.</td>
</tr>
<tr>
<td>10e Hazardous Polymerization</td>
<td>Does not occur</td>
</tr>
</tbody>
</table>
### 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.
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

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.

16a Date of Revision
06 September 2016