

## SPECTRUM VP-17-4090

### Section 1: Identification of the substance/mixture and of the company undertaking

- 1.1 Product Identifier: VP-17-4090**
- 1.2 Relevant identified uses of the substance or mixture:**  
Removal of organics, chlorine, taste and odour from water.
- 1.3 Details of the supplier of the safety data sheet:**  
Brand name: Spectrum (Company no. 01595206)  
20/20 Business Park  
Maidstone  
Kent  
ME16 0LS  
United Kingdom
- T: +44 (0)1622 691886  
F: +44 (0)1622 621932
- 1.4 Emergency Contact Details**  
Suzanne Warren T: + 44 (0)7970 633392

### Section 2: Hazard identification

- 2.1 Classification of the substance or mixture:**  
Not hazardous or dangerous.

Product Hazard Rating	Scale
Health = 1	0 = negligible
Fire = 1	1 = slight
Reactivity = 0	2 = Moderate
Special = n/a	3 = High
	4 = Extreme

- 2.2 Product Description:**  
White to light cream coloured solid beads mixed with black carbon granules and with little or no odour.
- 2.3 Precautions for use:**  
Safety glasses and gloves recommended. Slipping hazard if spilled.
- 2.4 Potential health effects:**  
Will cause eye irritation.  
May cause mild skin irritation.  
Ingestion is not likely to pose a health risk.
- 2.5 Environmental effects:**  
This product may alter the pH of any water that contacts it.

## Section 2a: Hazard Classification UN OSHA globally harmonized system



### **WARNING**

**(Contains chloride form strong base anion resin and granular carbon)**

**H316: Causes mild skin irritation (Category 3)**

**H320: Causes eye irritation (Category 2B)**

#### **Precautionary Statements**

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P284: In case of inadequate ventilation wear respiratory protection.

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.

P411: Store at temperatures not exceeding 50 °C/ 122 °F.

Please refer to the safety data sheet for additional information regarding this product

## Section 3: Composition/information on ingredients

### **3.1 Chemical name:**

Mixture of chloride form strong base anion resin and granular activated carbon.

### **3.2 Ingredients:**

Polyacrylic copolymer functionalized, with trimethylamine.

Granular activated carbon.

Water.

## Section 4: First aid measures

### 4.1 Inhalation:

No adverse effects expected – normal use of product does not produce odours or vapours.

### Skin:

Wash with soap and water – seek medical attention if a rash develops.

### Eye contact:

Wash immediately with water – seek attention if discomfort continues.

### Ingestion:

No adverse effects expected for small amounts, larger amounts can cause stomach irritation.

Seek medical attention if discomfort occurs.

## Section 5: Firefighting measures

### 5.1 Flammability:

NFPA Fire rating = 1

### 5.2 Extinguishing media:

Water, CO<sub>2</sub>, foam, dry powder.

### 5.3 Fire fighting procedures:

Follow general fire fighting procedures indicated in the work place. Seek medical attention if discomfort continues.

### 5.4 Protective equipment:

MSHA/NIOSH approved self-contained breathing gear, full protective clothing.

### 5.5 Combustion products:

Carbon oxides and other toxic gasses and vapours.

### 5.6 Unusual hazards:

Product is not combustible until moisture is removed.

Resin begins to burn at approximately 230° C. Auto ignition can occur above 500° C.

## Section 6: Accidental release measures

### 6.1 Personal precautions:

Keep people away, spilled resin can be a slipping hazard, wear gloves and safety glasses to minimize skin or eye contact.

### 6.2 Incompatible chemicals:

Strong oxidants can create risk of combustion products similar to burning, exposure to strong bases can cause a rapid temperature increase.

### 6.3 Environmental precautions:

Keep out of public sewers and waterways.

- 6.4 Containment materials:**  
Use plastic or paper containers, unlined metal containers not recommended.
- 6.5 Methods of clean-up:**  
Sweep up material and transfer to containers.

## Section 7: Handling and storage

- 7.1 Handling:**  
Avoid prolonged skin contact. Avoid contact with salts or with salty water to prevent premature exhaustion of the resin. Keep resin moist and avoid allowing resin to completely dry.
- 7.2 Storage:**  
Store in a cool dry place (0° to 45° C) in the original shipping container. This product is thermally sensitive and will have reduced shelf life if subjected to extended periods of time at temperatures exceeding 45° C. Although freezing does not usually damage ion exchange resins, avoid repeated freeze thaw cycles.
- 7.3 TSCA considerations:**  
Ion exchange resins should be listed on the TSCA Inventory in compliance with State and Federal Regulations.

## Section 8: Exposure controls/personal protection

- 8.1 OSHA exposure limits:**  
None noted.
- 8.2 Engineering controls:**  
Provide adequate ventilation.
- 8.3 Personal protection measures:**  
 Eye protection: Safety glasses or goggles  
 Respiratory protection: Not required for normal use  
 Protective gloves: Not required for limited exposure but recommended for extended contact

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

Appearance	White or cream beads approx. 0.6mm diameter mixed with irregularly shaped black carbon granules
Flammability or explosive limits	Flammable above 500° 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/litre
Melting point/freezing point	Does not melt, freezes at approx. 0 C
Solubility	Insoluble in water and most solvents
Boiling point	Does not boil
Flash point	Approx 500° C
Evaporation rate	Does not evaporate
Partition Coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	Approx 500° C
Decomposition temperature	Above 230° C
Viscosity	Not applicable

## Section 10: Stability and reactivity

### 10.1 Stability:

Stable under normal conditions.

### 10.2 Conditions to avoid:

Heat, exposure to strong oxidants.

### 10.3 Hazardous by-products:

Organic sulfonates, amines, charred polystyrene, aromatic acids and hydrocarbons, organic amines, nitrogen oxides, carbon oxides, chlorinated hydrocarbons.

### 10.4 Incompatible materials:

Strong oxidizing agents (such as HNO<sub>3</sub>).

### 10.5 Hazardous polymerization:

Does not occur

## Section 11: Toxicological information

### 11.1 Likely routes of exposure:

Oral, skin or eye contact.

### 11.2 Effects of exposure:

**Delayed:** None known

**Immediate (acute):** Rash or burn caused by acidity or causticity

**Chronic:** None known

### 11.3 Toxicity measures:

Skin Adsorption: Unlikely

Ingestion: Oral toxicity believed to be low but no LD50 has been established

Inhalation: Unknown, vapours are very likely due to physical properties (insoluble solid)

### 11.4 Toxicity symptoms:

Skin Adsorption: Rash or burn

Ingestion: Indigestion or general malaise

Inhalation: Unknown

- 11.5 Carcinogenicity:**  
None known.

## Section 12: Ecological information

- 12.1 Eco toxicity:**  
Not harmful to plant or animal life.
- 12.2 Mobility:**  
Insoluble, acidity or causticity may escape if wet.
- 12.3 Biodegradability:**  
Not biodegradable.
- 12.4 Bioaccumulation:**  
Insignificant.
- 12.5 Other adverse effects:**  
Not harmful to the environment.

## Section 13: Disposal Considerations

- 13.1 General considerations:**  
Material is non-hazardous.
- 13.2 Disposal containers:**  
Most plastic and paper containers are suitable. Avoid use of unlined metal containers.
- 13.3 Disposal methods:**  
No specific method necessary.
- 13.4 Sewage disposal:**  
Not recommended.
- 13.5 Precautions for incineration:**  
May release acids and toxic vapours when burned.
- 13.6 Precautions for landfills:**  
pH of spent resin may be high or low. Resins used to remove hazardous materials may then become hazardous mixtures.

## Section 14: Transport Information

- 14.1 Transportation class:**  
Not classified as a dangerous good for transport by land, sea or air.
- 14.2 TDG:**  
Not regulated.
- 14.3 IATA:**  
Not regulated.

**14.4 DOT (49 CFR 172.101):**  
Not regulated.

## Section 15: Regulatory Information

**15.1 CERCLA:**  
Not regulated.

**15.2 SARA Title III**  
Not regulated.

**15.3 Clean Air Act:**  
Not regulated.

**15.4 Clean Water Act:**  
Not regulated.

**15.5 TSCA:**  
Not regulated.

**15.6 Canadian Regulations:**  
WHMIS: Not a controlled product.  
TDG: Not regulated.

**15.7 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.

Owner	Business Services
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