

## SPECTRUM SRHM Heavy Metal Removal Resin

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

- 1.1 Product Identifier:** SRHM-RESIN-25L  
**UFI:** RM00-G0G3-300H-FX1V
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.  
**Application of the substance / the preparation:**  
Water treatment
- 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: Hazards identification

- 2.1 Classification of the substance or mixture**  
**Classification according to Regulation (EC) No 1272/2008:**  
The substance is not classified according to the CLP regulation.
- 2.2 Label elements**  
**Labelling according to Regulation (EC) No 1272/2008:**  
Void  
**Hazard pictograms:**  
Void  
**Signal word:**  
Void  
**Hazard statements:**  
Void
- 2.3 Other hazards**  
**Results of PBT and vPvB assessment:**  
**PBT:** Not applicable.  
**vPvB:** Not applicable.

## Section 3: Composition/information on ingredients

### 3.1 Chemical characterization: Substances

**CAS No. Designation:**

acrylonitrile-divinylbenzene-copolymer with carboxyl acid groups in H<sup>+</sup> - form

**Identification number(s):**

**EC number:** Not listed

**Additional information:** KH, KW-H

## Section 4: First aid measures

### 4.1 Description of first aid measures

**General information:** Instantly remove any clothing soiled by the product.

**After inhalation:** Supply fresh air; consult doctor in case of symptoms.

**After skin contact:** The product is not skin irritating.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** Rinse out mouth and then drink plenty of water. Seek medical treatment.

### 4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

## Section 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:**

Water spray, foam, carbon dioxide, dry extinguishing agents.

### 5.2 Special hazards arising from the substance or mixture:

No further information available.

### 5.3 Advice for firefighters

**Protective equipment:** Wear self-contained breathing apparatus.

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

Not required.

### 6.2 Environmental precautions:

No special measures required.

- 6.3 Methods and material for containment and cleaning up:**  
Collect mechanically.  
Dispose of contaminated material as waste according to chapter 13.
- 6.4 Reference to other sections:**  
No dangerous materials released  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

## Section 7: Handling and storage

- 7.1 Precautions for safe handling:**  
No special measures required.  
**Information about protection against explosions and fires:**  
The product is combustible.
- 7.2 Conditions for safe storage, including any incompatibilities:**  
**Storage:**  
**Requirements to be met by storerooms and containers:** No special requirements.  
**Information about storage in one common storage facility:** Not required  
**Further information about storage conditions:** Protect from frost  
**Recommended storage temperature:** -10-+40 °C
- 7.3 Specific end use(s):**  
No further relevant information available.

## Section 8: Exposure controls/personal protection

### Additional information about design of technical systems:

No further data; see chapter 7.

- 8.1 Control parameters**  
**Components with critical values that require monitoring at the workplace:**  
Not required.  
**Additional information:**  
The lists that were valid during the compilation were used as basis.
- 8.2 Exposure controls**  
**Engineering Controls:** Provide adequate ventilation.  
**Personal protective equipment**  
**General protective and hygienic measures:**  
The usual precautionary measures should be adhered to in handling the chemicals.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
**Breathing equipment:**  
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.  
**Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed safety glasses (EN 166).

**Body protection:**

Protective work clothing: DIN EN 13034.

## Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
<b>General Information</b>	
Form	Solid
Colour	Light grey
Smell	Odourless
Odour threshold	Not determined
pH-value (100 g/l) at 20°C	~7
<b>Change in condition</b>	
Melting point/Melting range	Not determined
Boiling point/Boiling range	Not determined
Flash point	Not applicable
Inflammability (solid, gaseous)	Not determined
Ignition temperature	>250°C
Decomposition temperature	Not determined
Self-inflammability	Not determined
Danger of explosion	Product is not explosive
<b>Critical values for explosion</b>	
Lower	Not determined
Upper	Not determined
Vapour pressure	Not applicable
Density at 20C	Not determined
Settled apparent density at 20C	770+/-35 kg/m <sup>3</sup>
Relative density	Not determined
Vapour density	Not applicable
Evaporation rate	Not applicable
Solubility in/Miscibility with Water	Unsoluble
Partition coefficient (n-octanol/water)	Not determined
<b>Viscosity</b>	
Dynamic	Not applicable

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<b>Kinematic</b>	Not applicable
<b>Solids content</b>	100.0%
<b>9.2 Other information</b>	No further relevant information available

## Section 10: Stability and reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

**Thermal decomposition/conditions to be avoided:**

No decomposition if used and stored according to specifications.

### 10.3 Possibility of hazardous reactions:

No dangerous reactions known.

### 10.4 Conditions to avoid:

No further relevant information available.

### 10.5 Incompatible materials:

No further relevant information available.

### 10.6 Hazardous decomposition products:

No dangerous decomposition products known.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity:

Based on available data, the classification criteria are not met.

#### LD/LC50 values that are relevant for classification:

**acrylonitrile-divinylbenzene-copolymer with carboxyl acid groups in H<sup>+</sup> - form**

Oral LD50 >2000 mg/kg

#### Primary irritant effect:

**Skin corrosion/irritation:** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.

**CMR effects** (carcinogenicity, mutagenicity and toxicity for reproduction)

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met. **STOT-**

**single exposure:** Based on available data, the classification criteria are not met. **STOT-repeated**

**exposure:** Based on available data, the classification criteria are not met. **Aspiration hazard:**

Based on available data, the classification criteria are not met.

## Section 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

No further relevant information available.

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## 12.2 Persistence and degradability:

No further relevant information available.

## 12.3 Bioaccumulative potential :

No further relevant information available.

## 12.4 Mobility in soil:

No further relevant information available.

### Additional ecological information

#### General notes:

Not hazardous for water.

## 12.5 Results of PBT and vPvB assessment:

**PBT:** Not applicable.

**vPvB:** Not applicable.

## 12.6 Other adverse effects:

No further relevant information available.

## Section 13: Disposal Considerations

### 13.1 Waste treatment methods recommendation:

Contact manufacturer for recycling information.

Disposal according to official regulations.

#### European waste catalogue:

19 00 00 – Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use

19 09 00 – Wastes from the preparation of water intended for human consumption or water for industrial use

19 09 05 – Saturated or spent ion exchange resins

19 08 00 – Wastes from waste water treatment plants not otherwise specified

19 08 06 – Saturated or spent ion exchange resins

#### Uncleaned packagings

##### Recommendation:

Disposal must be made according to official regulations.

## Section 14: Transport Information

14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Void

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14.4 Packing group ADR, RID,AND,IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
Transport/Additional information:	Not dangerous according to the above regulations
UN "Model Regulation":	-

## Section 15: Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National Regulations

**Water hazard class:** not hazardous for water.

### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## Section 16: Other Information

16.1 These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Department issuing data specification sheet:

Product safety department

### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Owner. Technical Team

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