

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
- 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**
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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⁺ - 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**
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	
General Information	
Form	Solid
Colour	Light grey
Smell	Odourless
Odour threshold	Not determined
pH-value (100 g/l) at 20°C	~7
Change in condition	
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
Critical values for explosion	
Lower	Not determined
Upper	Not determined
Vapour pressure	Not applicable
Density at 20C	Not determined
Settled apparent density at 20C	770+/-35 kg/m ³
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
Viscosity	
Dynamic	Not applicable

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Kinematic	Not applicable
Solids content	100.0%
9.2 Other information	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⁺ - form

Oral LD50 >2000 mg/kg (rat)

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.

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

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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