Safety Data Sheet

SPECTRUM SRDI Mixed Bed DI Resin

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

1.1 **Product Identifier:** SRDI-RESIN-25L

1.2 **Relevant identified uses of the substance or mixture and uses advised against:**
Application of the substance / the preparation: Water treatment, Ion Exchanger, Resin, Catalyst

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
Eye Dam. 1 H318 Causes serious eye damage.

2.2 **Label elements:**
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

Hazard pictograms


GHS05 corrosion

Signal word Danger

Hazard-determining components of labelling:
styrene-divinylbenzene-copolymer with trialkyl ammonium groups in OH- form
styrene-divinylbenzene-copolymer with sulfonated groups in H- form

Hazard statements:

Precautionary statements:

P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P510	Dispose of contents/container in accordance with local/regional/national/international r regulations.

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: Mixtures

Description: Mixture of the following components with non-hazardous substances.

Dangerous Components:		
CAS: 69011-18-3 EC number: Polymer	styrene-divinylbenzene-copolymer with trialkyl ammonium groups in OH- form  Eye Dam. 1, H318	25-50%
CAS: 69011-20-7 EC number: Polymer	styrene-divinylbenzene-copolymer with sulfonated groups in H+form  Eye Dam. 1, H318	10-25%

Non-dangerous Components:		
CAS: 7732-18-5 EINECS: 231-791-2	water	25-50%

Section 4: First aid measures

4.1 Description of first aid measures:

General information

Instantly remove any clothing soiled by the product.

People who have inhaled the product or the brand developed fumes or have come into contact with the product may not show immediate symptoms.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Position and transport in a stable posture on side.

After inhalation:	Supply fresh air; consult doctor in case of symptoms.
After skin contact:	Instantly wash with water and soap and rinse thoroughly.
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
After swallowing:	Induce vomiting, only if person affected is fully conscious. 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. Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture, can be released in case of fire:
Nitrogen oxides (NO)
Carbon monoxide (CO)
Carbon dioxide (CO_2)
Sulphur oxides (SO_2)

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:
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:
Do not allow to enter drainage system, surface or ground water.

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:
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:
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:
The product is combustible.
Protect againstelectrostatic charges.
Keep away from combustible materials, open flames and all sources of heat.

7.2 Conditions for safe storage, including any incompatibilities:
Storage
Requirements to be met by storerooms and containers:
Store only in the original container.
Information about storage in one common storage facility:
Do not store with foodstuffs, animal feed and flammable materials.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well-sealed containers.
Recommended storage temperature:
1-40 °C.
Storage Class:
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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.

8.1 Control parameters
Components with critical values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the work place.
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:
In case of handling the product, careful hygienic measures are recommended.
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of work.
Do not eat, drink or smoke while working.
Avoid contact with the eyes.

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
PVC gloves
Nitrile rubber, NBR
Chloroprene rubber, CR
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Form	Solid
Colour	Dark brown
Smell	Product specific
Odour threshold	Not determined
pH-value (100 g/l) at 20ºC	6-9
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	>500ºC
Decomposition temperature	Not determined
Self-inflammability	Product is not selfigniting
Explosive properties	Product is not explosive
Critical values for explosion	

Lower	Not determined
Upper	Not determined
Vapour pressure	Not applicable
Density at 20C	1.1g/ cm^3
Settled apparent density at 20C	600-800 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
Kinematic	Not applicable
Solvent content:	
VOC/EC	0.00%
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 according to specifications.

10.3 Possibility of hazardous reactions:
Reacts with strong acids and oxidising agents.

10.4 Conditions to avoid:
Heat, flames, sparks and other sources of ignition.

10.5 Incompatible materials:
No further relevant information available.

10.6 Hazardous decomposition products:
carbon monoxide (CO)
carbon dioxide (CO2)
nitrogen oxides (NOx)
sulphur oxides (SOx)

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:
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:
Causes serious eye damage.
Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
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:
Waterhazard class 1 (Self-assessment): slightly hazardous forwater.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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.
Waste material must be disposed of in accordance with Directive 2008/98/EC as well as national and local regulations.

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

19 08 06 – Saturated or spent ion exchange resins.

HP 4 – Irritant – skin irritation and eye damage.

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, 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 goods according to the official regulations
UN "Model Regulation":	Void

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
Directive 2012/18/EU
Named dangerous substances – ANNEX 1 None of the ingredients is listed
National regulations
Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16: Other Information

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.

Relevant phrases:
H318 Causes serious eye damage.

Safety Data Sheet

Department issuing data specification sheet:
Product safety department
Abbreviations and acronyms:

ADR:	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 Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service
VOC:	Volatile Organic Compounds (USA,EU)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative
Eye Dam. 1:	Serious eye damage/eye irritation – category 1

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