

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
UFI: 8300-F0AQ-800J-GVJG

1.2 Relevant identified uses of the substance or mixture and uses advised against:
Application of the substance / the preparation: Ion exchange resin for water treatment and purification. For industrial use only.

1.3 Details of the supplier of the safety data sheet:

Brand name: Spectrum
20/20 Business Park
Maidstone
Kent
ME16 0LS
United Kingdom

Brand name: Spectrum
ul. Maratońska 104a
94-102
Łódź
Poland

T: 0800 368 9302

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1.4 UK Emergency Contact Details:

NHS Direct: 111
NHS24: 0845 242424
ROI: 01809 2166 (office hours only)

EU Emergency Contact Details:

Austria: +43 1 406 43 43
Belgium: +32 (0) 70 245 245
Cyprus: 1401
Czech Republic: +420 224 919 293 or +420 224 915 402
Denmark: +45 8212 1212
Estonia: 16662
Finland: 09-471 977 or 09 4711
France: +33 (0)1 45 42 59 59
Greece: +30 210 77 93 777
Croatia: +385-01-23-48-342
Hungary: +36 80 201 199
Ireland: +353 (0)1 809 2166
Italy: 06 68593726 or 06 3054343
Latvia: 112 or +371 67042473
Lithuania: 112 or +370(5) 2362052 or +370 687 53378
Luxembourg: (+352) 8002 5500
The Netherlands: +31 (0)88 755 8000 (for healthcare professionals only)
Poland: +40213183606
Portugal: +351 800 250 250
Romania: +40213183606
Slovakia: 00421 (0) 2 5477 4166
Spain: +34 91 562 04 20
Switzerland: 145
Turkey: 114

Section 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008

H319 Causes serious eye irritation

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



Signal word Warning

Hazard-determining components of labelling:

Strong acid cation exchange resin Styrene-divinylbenzene sulfonic acid (H-form)

Strong base anion exchange resin Styrene-divinylbenzene quaternary ammonium hydroxide (OH-form)

Hazard statements:

H319 Causes serious eye irritation.

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.

P501 Dispose of contents/container in accordance with local/regional/national/international 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: Homogeneous mixture of strong acid cation exchange resin (H-form), strongbase anion exchange resin (OH-form), and wetting water.

Dangerous Components:		
CAS: 69011-18-3 EC number: Polymer	Strong base anion exchange resin Styrene-divinylbenzene quaternary ammonium hydroxide (OH-form)  Eye Irrit. 2, H319	40-50%
CAS: 69011-20-7 EC number: Polymer	Strong acid cation exchange resin Styrene-divinylbenzene sulfonic acid (H-form)  Eye Irrit. 2, H319	20-30%

Non-dangerous Components:		
CAS: 7732-18-5 EINECS: 231-791-2	Water	40-60%

Section 4: First aid measures**4.1 Description of first aid measures:**

- After inhalation:** Remove to fresh air. Keep at rest. If irritation occurs, seek medical advice.
- After skin contact:** Rinse with plenty of water. Remove contaminated clothing. Seek medical advice if irritation persists.
- After eye contact:** Immediately rinse with plenty of water for at least 15 minutes. Remove contact lenses if present. Seek medical advice **immediately**
- 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:

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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

Provide general supportive measure and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Section 5: Firefighting measures

5.1 Extinguishing media: Suitable extinguishing agents:

Water spray, Carbon dioxide (CO₂), Dry chemical, Talc

5.2 Special hazards arising from the substance or mixture, can be released in case of fire:

Non-combustible when moist; dry resin may burn above 230 °C; autoignition temperature >500 °C.

Hazardous combustion products: Carbon oxides, nitrogen oxides, organic amines, aromatic compounds, phenol, chlorine-containing compounds.

5.3 Advice for firefighters:

Protective equipment: Wear self-contained breathing apparatus (SCBA) and full protective clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Ensure adequate ventilation. Wear eye protection.

6.2 Environmental precautions:

Do not release into soil, water or drains

6.3 Methods and material for containment and cleaning up:

Sweep up spilled material and place into closed containers. Clean affected area; floor may become slippery.

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:

Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices

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: Store away from incompatible materials.

Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well-sealed containers.

7.3 Specific end use(s):

Ion Exchange, Absorbent and/or Catalyst

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 workplace

Occupational exposure limits: No specific exposure limits are established for this product.

8.2 Exposure controls

Individual protection measures

• Eye/face protection (EN 166):

Safety splash goggles complying with EN 166 are recommended to prevent eye contact with splashes or airborne particles.

• Hand protection (EN 374):

Not normally required for routine handling; chemical-resistant gloves (complying with EN 374) shall be worn for prolonged or repeated handling.

• Skin and body protection (EN 14605):

Good personal hygiene practices are recommended; chemical-resistant protective clothing (complying with EN 14605) shall be used if prolonged or frequent skin contact is possible.

• Respiratory protection (EN 143, EN 14387):

Not required under normal conditions with adequate ventilation. If airborne concentrations exceed acceptable levels, use respiratory protection complying with EN 143 or EN 14387.

Appropriate engineering controls:

Good general industrial ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Engineering measures:

Normal industrial ventilation is recommended to control airborne concentrations.

Hygiene measures:

Always observe good personal hygiene measures, such as washing hands thoroughly with soap and water after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

General advice:

Use personal protective equipment as required. Personal protection equipment should be chosen according to the relevant CEN standards and in discussion with the supplier of the personal protective equipment. Follow all workplace safety and hygiene protocols to minimize exposure risks.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance	Solid - beads
Colour	White, Cream, Amber, Brown
Odour	No or low odour
Odour threshold	Not applicable/not determined
pH-value (100 g/l) at 20°C	Acidic/Alkaline
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	Not determined
Decomposition temperature	Not determined
Self-inflammability	Not determined
Explosive properties	Product is not explosive
Critical values for explosion	
Lower	Not determined
Upper	Not determined
Vapour pressure	Not applicable
Density at 20°C	1.05-1.28
Relative density	Not determined
Vapour density	Not applicable
Evaporation rate	Not applicable
Solubility in/Miscibility with	
Water	Insoluble
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

This product is stable and shows no reactivity under the specified conditions of storage, shipment and use.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

This substance is stable under the recommended handling and storage conditions in section 7.

10.3 Possibility of hazardous reactions:

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid:

Contact with incompatible materials. Heat, sparks, flames, elevated temperatures.

10.5 Incompatible materials:

Strong oxidizing agents. Nitric acid.

10.6 Hazardous decomposition products:

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Low acute toxicity; no LD50 data available

Skin irritation: May cause mechanical irritation

Eye irritation: May cause mechanical irritation

Skin sensitization: No data available

Carcinogenicity: Not classified

Germ cell mutagenicity: Not classified

Reproductive toxicity: Not classified

Skin absorption: Unlikely due to physical form

Inhalation hazard: Unlikely

Section 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

No further relevant information available; no adverse effects on aquatic organisms are expected under normal use conditions.

Additional ecological information/General notes:

The product is insoluble in water and not known to present significant ecological hazards under recommended handling and disposal practices.

12.2 Persistence and degradability : No further relevant information available.

12.3 Bioaccumulative potential: Not applicable

12.4 Mobility in soil: The product is insoluble in water.

12.5 Results of PBT and vPvB assessment: Not applicable

12.6 Other adverse effects: No known adverse effects to aquatic or terrestrial environments under normal conditions of use and disposal.

Section 13: Disposal Considerations

13.1 Waste treatment methods:

Waste material must be disposed of in accordance with EU Directive 2008/98/EC and applicable national/local waste regulations. Contact the manufacturer for recycling information where applicable.

EWC/Waste code:

- **19 08 06 – Saturated or spent ion exchange resins (primary code)**
- **Related codes: 19 00 00 (Wastes from waste management facilities), 19 08 00 (Wastes from wastewater treatment plants not otherwise specified)**

Classification of waste (hazardous / non-hazardous):

- Uncontaminated resin: Classified as non-hazardous waste under standard conditions.
- Contaminated resin: May be classified as hazardous waste if contaminated with hazardous substances during use.

Criteria for determining hazardous waste status:

Classification depends on the degree and type of contamination (e.g., with heavy metals, toxic organics, or other hazardous materials) accumulated during use. Always verify against local waste classification regulations.

Disposal methods (landfill/incineration/recycling):

- Uncontaminated resin: Landfill at a licensed facility or incineration at an approved plant.
 - Contaminated resin: Dispose as hazardous waste at a licensed facility, or incinerate in compliance with local regulations.
 - Recycling: Contact the manufacturer for information on resin regeneration or recycling programs.
- Conditions under which landfill is permitted: Only permitted at licensed, non-hazardous waste landfill sites for uncontaminated resin, in compliance with local environmental regulations.

Contaminated resin requires hazardous waste landfill approval.

Conditions under which incineration is required: Required for contaminated resin or where local regulations mandate thermal treatment for spent ion exchange resins. Incineration must be performed at an approved facility with emission controls

Packaging disposal:

Dispose of contaminated packaging as hazardous waste; uncontaminated packaging may be recycled or disposed of as general waste in accordance with local regulations.

Special disposal restrictions:

Do not discharge spent resin or waste into drains, surface water, or the environment. Unauthorized disposal is prohibited.

General notes: Always confirm disposal requirements with local environmental authorities. Proper waste management prevents environmental contamination

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
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
14.6 Special precautions for user	Not applicable
Transport/Additional information:	Not dangerous goods according to the official regulations

Section 15: Regulatory Information

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

CLP classification and legal basis:

Not classified as hazardous under CLP (EU) 2023/2017(Regulation (EC) No 1272/2008).

SVHC status:

Under REACH (EC) No 1907/2006, the product contains no Substances of Very High Concern (SVHC) above the regulatory threshold.

Applicable EU legislation references

- Directive 2012/18/EU (Seveso III): No ingredients listed in Annex 1.
- REACH (EC) No 1907/2006
- CLP (EU) 2023/2017 (Regulation (EC) No 1272/2008)

Applicable national regulations (e.g. COSHH or equivalent)

Comply with all applicable local occupational health, safety and environmental regulations (including COSHH or equivalent national legislation).

Water hazard class:

Not hazardous to water.

EWC / waste classification reference (if applicable)

Primary waste code: 19 08 06 – Saturated or spent ion exchange resins. Consult local authorities for site-specific requirements.

Chemical Safety Assessment (CSA) status (and scope)

A Chemical Safety Assessment has not been carried out for this product.

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:

H319 Causes serious eye irritation.

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

