

SPECTRUM SRSO Softening Resin

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

1.1 Product Identifier: SRSO-RESIN-25L
UFI: 7600-Y013-K002-474J

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	Brand name: Spectrum
20/20 Business Park	ul. Maratońska 104a
Maidstone	94-102
Medway	Łódź
ME16	Poland
0LS	
United Kingdom	
	T: 0800 368 9302
T: 0800 368 9302	

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:

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:

Sulfonated copolymer of Styrene and
60% divinylbenzene in the sodium form
Water

CAS# 69011-22-9 Concentration 40%-

CAS# 7732-18-5 Concentration 40%-60%

Identification number(s):

EC number:

not listed

Section 4: First aid measures

4.1 Description of first aid measures

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

After inhalation: No emergency medical treatment necessary.

After skin contact: Wash skin with plenty of water.

After eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes.

After swallowing: No emergency medical treatment necessary.

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 specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Water, CO₂, foam, dry powder.

5.2 Special hazards arising from the substance or mixture:

Carbon oxides and other toxic gasses and vapors. 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.

5.3 Advice for firefighters:

Follow general fire fighting procedures indicated in the work place. MSHA/NIOSH approved self-contained breathing gear, full protective clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

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

6.2 Environmental precautions:

Keep out of public sewers and waterways.

6.3 Methods and material for containment and cleaning up:

Use plastic, paper, or metal containers.

Sweep up material and transfer to containers..

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:

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.

Information about protection against explosions and fires:

The product is combustible.

7.2 Conditions for safe storage, including any incompatibilities

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 50° C. Although freezing does not usually damage ion exchange resins, avoid repeated freeze thaw cycles.

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 Engineering Controls

Provide adequate ventilation.

Personal Protection Measures:

Eye Protection

Safety glasses or goggles.

Respiratory Protection

Not required for normal use.

Protective Gloves

Recommended for extended contact.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance	Amber, tan or black beads
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 9 typical)
Relative density	Approx 800grams/liter
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 Reactivity:

No further relevant information available.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Conditions to avoid:

Heat, exposure to strong oxidants

10.5 Incompatible materials:

Strong oxidizing agents, e.g. nitric acid (such as HNO₃)

10.6 Hazardous decomposition products:

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

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

69011-22-9 benzene, diethenyl- polymer with ethenylbenzene and ethenylethylbenzene, sulfonated, sodium salts

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 sensitisation: Based on available data, the classification criteria are not met. **CMR Effects:** 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.

Ingestion: Oral toxicity believed to be low but no LD50 has been established. Indigestion or general malaise.

Inhalation: Unknown, vapors are very unlikely due to physical properties (insoluble solid).

Skin absorption: Mild rash

Section 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Not harmful to plant or animal life.

12.2 Persistence and degradability:

Not biodegradable.

12.3 Bioaccumulative potential:

Insignificant.

12.4 Mobility in soil:

Insoluble.

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:

Not Harmful to the environment.

Section 13: Disposal Considerations

13.1 Waste treatment methods recommendation:

General considerations: Material is non-hazardous. However, unused material can cause a pH decrease when wetted

Disposal containers: Most plastic and paper containers are suitable. Avoid use of unlined metal containers.

Disposal methods: No specific method necessary

Sewage disposal: Not recommended

Precautions for incineration: May release dimethylamine and toxic vapors when burned.

Precautions for landfills: PH of spent resin may be low. Resins used to remove hazardous materials may then become hazardous mixtures

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 according to the above 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 Substance is not listed

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** 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.

Department issuing data specification sheet: Product safety department

Abbreviations and acronyms:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
GHS:	Globally Harmonized 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