

SAFETY DATA SHEET

1 Identification of the substance or preparation and of the company/undertaking

Product Name: **Purolite S910, S970**
Datasheet Number: P-S910- 1. 0. 0
Use of the substance/preparation: Selective removal of metals from aqueous solutions
Chemical Name: Polystyrene amidoxime
Ionic form: Free base
Name of Supplier: PUROLITE INTERNATIONAL LIMITED
Address of Supplier: Cowbridge Road, Pontyclun
Wales, CF72 8YL, United Kingdom
Telephone: +44 (0) 1443 229334
Fax: +44 (0) 1443 222336
Responsible Person:
Emergency Telephone:

2 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases	Symbols
Functionalised styrene/divinylbenzene copolymer	40-48%	-	-	-	-
Moisture content	52-60%				

3 Hazards identification

- Contact with eyes: Mildly irritating to eyes

4 First aid measures

Contact with skin

- Remove contaminated clothing
- Wash affected area with plenty of water

Contact with eyes

- Mildly irritating to eyes
- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Seek medical attention if irritation persists

Ingestion

- Give 200-300mls (half pint) water to drink
- Never give anything by mouth to an unconscious person
- Seek immediate medical attention
- Do not induce vomiting

4 First aid measures (....)

Inhalation

- Remove patient to fresh air
 - Seek medical advice
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5 Fire-fighting measures

- Combustible solid
 - In case of fire use water, foam, carbon dioxide or dry agent (S43)
 - Substance evolves toxic fumes, wear self-contained breathing apparatus
 - Wear full protective clothing including chemical protection suit
 - Prevent run off water from entering drains if possible
 - If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities
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6 Accidental release measures

Personal Precautions

- Keep people and animals away
- Spillage causes slippery surface

Environmental Precautions

- Do not allow to enter public sewers and watercourses

Clean Up Actions

- Collect as much as possible in clean container for reuse or disposal
 - See Section 13
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7 Handling and storage

Handling

- No special precautions are required for this product

Storage

- Store above 0 °C
 - Do not store above 40 °C
 - Avoid dehydration (when rewetted the resin volume may increase and cause a rupture of the packaging)
 - Keep only in the original container (S49)
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8 Exposure controls and personal protection

Exposure controls

- No special precautions are required for this product

Occupational exposure controls

- No respiratory protection is required
 - Wear rubber or PVC gloves
 - Wear eye/face protection (S39)
 - Wear suitable protective clothing (S36)
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8 Exposure controls and personal protection (....)

9 Physical and chemical properties

- Odour: Odourless
 - Appearance: off-white, beads
 - pH - not applicable
 - Boiling point - not applicable
 - Melting point - not applicable
 - Insoluble in water
 - Specific gravity - not known
 - Combustible solid
 - Partition coefficient : n-Octanol/water - not applicable
 - Viscosity - not applicable
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10 Stability and reactivity

- Considered stable under normal conditions
 - Incompatible with strong oxidizing substances, Contact with strong oxidisers, especially nitric acid, may produce low molecular weight organics that may form explosive mixtures
 - See Section 5
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11 Toxicological information

Toxicological information

- LD50 (oral, rat) >5000 mg/kg
- LD50 (dermal, rabbit) : not available
- LC50 (inhalation, rat) : not applicable
- Irritation to eyes: Irritant by mechanical action
- Irritation to skin (rabbit) : None

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No evidence of reproductive effects

Mutagenicity

- No evidence of mutagenic effects
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12 Ecological information

Ecotoxicity

- On available data, substance is not harmful to aquatic life

Mobility

- Insoluble in water
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12 Ecological information (....)

Persistence and Biodegradability

- Not readily biodegradable

Bioaccumulation Potential

- Bioaccumulation is insignificant

Other Adverse Effects

- On available data, substance is not harmful to the environment
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13 Disposal considerations

Disposal considerations

- In UK, surplus product should be declared a 'Special Waste'. Refer to the 'Control of Pollution (Special Waste) Regulations 1980 - SI 1709'
 - Do not discharge into drains or the environment, dispose to an authorised waste collection point
 - EU number for exhausted or saturated ion exchange resins used for the preparation of drinking water or water for industrial use is 19 09 05
 - EU number for exhausted or saturated ion exchange resins used in waste water treatment plants not otherwise specified is 19 08 06
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14 Transport information

- Not classified as hazardous for transport
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15 Regulatory information

Classification and labelling

- Not classified as hazardous for supply
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16 Other information

Note 1: Industrial grade products are not intended for analytical, medical, food and pharmaceutical applications without preliminary extensive purification.

This Safety Data Sheet complies with Directive 91/155/EEC.