

SAFETY DATA SHEET

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

Product Name: Purolite C100, C100X10, C100E, C100EAG, C100E LIGHT, C120E, C145, C148, C150, C161, PFC100E, PFC100x10, PCF150, PPC100, PPC100x10, PPC150 (also in C, E, G, S, CL, D, MB, PL and TL grade)

Datasheet Number: P-C100- 1. 0. 0

Use of the substance/preparation: Demineralisation or softening of aqueous solutions

Chemical Name: Sodium polystyrene sulphonate

Ionic form: Sodium

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	40-65%	-	-	-	-
Moisture content	35-60%				

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

4 First aid measures (....)

- Do not induce vomiting

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
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8 Exposure controls and personal protection (....)

- Wear eye/face protection (S39)
 - Wear suitable protective clothing (S36)
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9 Physical and chemical properties

- Odour: Odourless
 - Appearance: amber, brown, black, 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
- No information available
- 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
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12 Ecological information (....)

Mobility

- Insoluble in water

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.