

## Material Safety Data Sheet

<b>1. Identification of the substance/preparation and company/undertaking.</b>					
<b>Name:</b>		MC:ES, MC:EW, MC:DS, DC:DW, C100, C114		<b>MSDS No.</b> 10506	
<b>Synonyms:</b>		ELGACAN			
<b>Supplied by:</b>		ELGA LabWater, VWS (UK) Ltd. Lane End Industrial Park, High Wycombe Bucks. HP14 3BY, England			
<b>2. Composition/information on ingredients</b>					
<b>Description:</b>		High density polyethylene cartridge containing ion exchange resins.			
<b>Contains:</b>		(1) Sulphonated copolymer of styrene and divinylbenzene in the hydrogen form. (2) Triethylamine functionalised copolymer of styrene and divinylbenzene in the hydroxide form.			
<b>Chemical</b>	<b>% Conc</b>	<b>Classification</b>	<b>Exposure</b>	<b>CAS</b>	<b>EINECS</b>
(1)	>20%	Xi, R36		069011-20-7	
(2)	>20%	Xi, R36		069011-18-3	
<b>3. Hazards identification</b>					
Irritating to eyes.					
<b>4. First Aid measures</b>					
<b>Exposure Route</b>	<b>Symptom</b>	<b>Treatment</b>			
<b>Inhalation</b>	No adverse effects anticipated.				
<b>Skin Contact</b>	None.	Wash off in flowing water or shower.			
<b>Eye Contact</b>	Irritation.	Irrigate with flowing water for at least 15 minutes. Remove all particles. Consult medical staff.			
<b>Ingestion</b>	No adverse effects anticipated.				
<b>5. Fire Fighting Measures</b>					
<b>Suitable Extinguishers</b>		Foam, CO <sub>2</sub> , Dry chemical.			
<b>Hazardous Combustion Products</b>		Monomers, Residual organics, Carbon Oxides, Amines, Nitrogen Oxides and Sulphur Oxides.			
<b>Special Equipment for Fire Fighting</b>		Wear self-contained breathing apparatus and full protective gear.			
<b>6. Accidental Release Measures</b>					
<b>Safety Precautions</b>		Floor may be slippery.			
<b>Environmental Precautions</b>		Prevent contamination of surface and ground-water.			
<b>Clean up Procedure</b>		Contain and sweep up. Transfer to containers for recovery/disposal.			

## 7. Handling and Storage

<b>Handling</b>	<b>Ventilation</b>	Normal
<b>Prohibited procedures &amp; equipment</b>	None	
<b>Recommended procedures &amp; equipment</b>	Protective gloves. Safety glasses and eyewash. May cause slippery surfaces.	
<b>Storage</b>	<b>Temperature range</b>	0°C - 50°C.
Avoid freezing and dehydration. Allow room for expansion. Static discharge may accumulate on dry beads.		

## 8. Exposure Controls/Personal Protection

<b>Exposure Limits</b>	None established. Normal ventilation sufficient.
<b>Respiratory</b>	Protection not required.
<b>Hand/Skin</b>	Protective gloves.
<b>Eye</b>	Use chemical goggles. Eyewash available.
<b>Hygiene Measures</b>	No details.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Spherical Beads –White to dark amber.
<b>Odour</b>	Slight amine.
<b>pH</b>	N/A
<b>Boiling Point/range</b>	N/A
<b>Melting Point/range</b>	N/A
<b>Flammability</b>	Auto ignition >500°C.
<b>Oxidizing Properties</b>	None
<b>Relative Density</b>	1.04 - 1.4
<b>Solubility in Water</b>	Virtually insoluble.
<b>Solubility in Solvent</b>	No Detail.

## 10. Stability & Reactivity

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Storing above 50°C may result in amine vapour.
<b>Materials to Avoid</b>	Nitric Acid and strong oxidisers. Risk of explosion.
<b>Hazardous Decomposition Products</b>	Monomers, Residual organics, Carbon Oxides, Amines, Nitrogen Oxides.

## 11. Toxicological Information

<b>Effects</b>	Acute toxicity unlikely due to physical properties. Eye irritation by mechanical and chemical action. May cause corneal injury. Effects are likely to heal. Prolonged skin exposure may cause irritation.
<b>LD 50</b>	>5000 mg/kg if ingested.

## 12. Ecological Information

<b>Environmental Effects</b>	Stable.
<b>Mobility</b>	Low.
<b>Degradability</b>	No biodegradation observed
<b>Bioaccumulative Potential</b>	Low.
<b>Aquatic Toxicity</b>	Low ecotoxicity as not soluble in water but may change local pH of waters.

## 13. Disposal Considerations

<b>Substance</b>	Non hazardous – Landfill/controlled incineration.
<b>Container</b>	No Details.

**14. Transport Information-** Not classified as hazardous for transport.

<b>UN Number</b>	<b>Class/Item No</b>
<b>Primary Hazard</b>	<b>Subsidiary Hazard</b>
<b>Packing Group</b>	<b>Emergency Action Code</b>
<b>HI Number</b>	

## 15. Regulatory Information

<b>Supply Label Details</b>	Neutral form not classified hazardous.
<b>Label Name</b>	Chemical name not required.
<b>Symbols</b>	Xi Irritant.
<b>Risk Phrases</b>	R36 Irritating to eyes
<b>Safety Phrases</b>	S26 In case of contact of chemical components with eyes, rinse immediately with plenty of water and seek medical advice
	S39 Wear eye/face protection

**Use of this material may be governed by the following regulations:** No detail.

## 16. Other information

<b>This product is used</b>	Only in water purification plant.
<b>It must not be used for</b>	Other purposes unless agreed in writing by Veolia Water VWS (UK) Ltd.
<b>Legal Disclaimer</b>	The information herein is given in good faith and to the best of our knowledge but no warranty, expressed or implied, is made.
<b>Last Revised</b>	16 <sup>th</sup> September 2008