

Material Safety Data Sheet

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

7. Handling and Storage

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

8. Exposure Controls/Personal Protection

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

9. Physical & Chemical Properties

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

10. Stability & Reactivity

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

11. Toxicological Information

Effects	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.
LD 50	>5000 mg/kg if ingested.

12. Ecological Information

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

13. Disposal Considerations

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

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

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

15. Regulatory Information

Supply Label Details	Neutral form not classified hazardous.
Label Name	Chemical name not required.
Symbols	Xi Irritant.
Risk Phrases	R36 Irritating to eyes
Safety Phrases	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

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