

Selenium and Tellurium and Electrolyte

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

Product Name: Selenium and Tellurium Electrolyte

Product number: R-300-500ESE-01, R-100-210ESE-01

company: Cogent Environmental Ltd
Unit 3, Edinburgh House
Innovation Park
Cambridge, CB4 0DS
UK

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2. Composition/information on ingredients

Product name: Selenium Electrolyte, Tellurium Electrolyte

CAS number: none EC number: none

<u>Hazardous Ingredients</u>	<u>Proportion</u>	<u>CAS-No</u>	<u>EC-No</u>
Perchloric acid	0.6%	7601-90-3	231-512-4

Symbol: O, C

R-phases: R5-8-35

Heating may cause explosion. Contact with combustible material may cause fire. Causes severe burns.

3. Hazards identification

Not classified as dangerous according to EC Directives

4. First aid measures

If swallowed: Wash out mouth thoroughly providing person is conscious. Do not induce vomiting. Seek medical advice.

After eye contact: Irrigate thoroughly with water for at least 15 minutes. If discomfort persists obtain medical attention.

After skin contact: Remove contaminated clothing. Wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Launder clothing before reuse.

If inhaled: Remove individual from contaminated air, rest and keep warm. If breathing is difficult give oxygen and seek medical assistance.

5. Fire-fighting measures

Not combustible. May evolve toxic fumes in fire.

Fire fighters should wear self contained breathing apparatus if exposure to fumes is likely.

Use water spray or foam to control fire situation if compatible with other chemical products in the vicinity.

6. Accidental release measures

Wear protective clothing when dealing with spills. Neutralise with sodium bicarbonate. Absorb spills with sand or vermiculite. Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with local regulations.

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7. Handling and storage

Handling: Do not breathe vapour. Do not get in eyes, on skin or clothing. Change contaminated clothing. Wash hands after working with substance. Avoid prolonged or repeated exposure.

Storage: Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices. Solution is acidic and may corrode metals.

8. Exposure controls and personal protection

UK Exposure Limits:
 None assigned

Engineering Controls:
 Always use this product with good general ventilation (10-15 changes of air in the room per hour) or preferably in a chemical fume hood. Maintain atmospheric concentrations as low as possible.

Personal Protection:
 Avoid all skin and eye contact. Wear protective clothing including safety glasses and rubber or PVC gloves. Never pipette by mouth.

9. Physical and chemical properties

Appearance:	Clear colourless Liquid
Boiling point (°C):	100 (approx)
Vapour pressure (mmHg at 20°C):	25 (approx)
Specific Gravity (g/mL):	1.0
Flash Point (°C):	Not flammable
Flammability limits (%):	Not flammable
Solubility in water (g/L):	Completely miscible

Other Properties:

10. Stability and reactivity

Substances to be avoided: Metals, bases

Hazardous decomposition products: Chlorine

11. Toxicological information

After ingestion: May cause irritation of mouth, throat, oesophagus and gastrointestinal tract.

After skin contact: May cause irritation.

After eye contact: May cause irritation.

After inhalation: May cause irritation of mucous membranes, coughing, and dyspnoea.

12. Ecological information

Harmful effect due to pH shift.

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13. Disposal considerations

Contact a licensed professional waste disposal service to dispose of this material. Observe local and national environmental regulations.

14. Transport information

Non – hazardous for air, road or sea transport.

15. Regulatory information

Not classified as dangerous according to EC directives.

16. Other information

None

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