



MODERNWATER

MSDS

Material Safety Data Sheet

Document No.: MSDS018  
Version No.: 04  
Effective Date: 22 Jan 2016

## Mercury / Chrome Electrolyte Concentrate

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

Product Name: Mercury (Hg) / Chrome (Cr) Electrolyte Concentrate

Product number: R-300-500EHG-01, R-100-010EHG-02

company: Modern Water Monitoring Ltd  
Unit 15 - 17, Cambridge Science Park  
Cambridge, CB4 0FQ  
UK

Telephone: +44 (0) 1483 696000

Email: [info@modernwater.co.uk](mailto:info@modernwater.co.uk)

### 2. Composition/information on ingredients

Product name: Hg and Cr Electrolyte Concentrate

CAS number: none EC number: none

<u>Hazardous Ingredients</u>	<u>Proportion</u>	<u>CAS-No</u>	<u>EC-No</u>
Acetic acid Symbol: C	7%	64-19-7	200-580-7

R-phrases: R10, 35

Flammable. Causes severe burns.

### 3. Hazards identification

Not Hazardous

### 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

Combustible. Decomposition products include hydrogen chloride fumes. Contact with metals may produce hydrogen gas.

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

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

### 6. Accidental release measures

Wear protective clothing when dealing with spills. Clean up with plenty of water and run to waste, diluting with running water, diluting with running water. Dispose of in accordance with local regulations.

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### 7. Handling and storage.

Handling: Change contaminated clothing. Wash hands after working with substance.

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. Do not mix with cyanides or sulphides.

### 8. Exposure controls and personal protection

UK Exposure Limits:

Acetic acid: 37 mg/m<sup>3</sup> Short term (15 ppm) & 25 mg/m<sup>3</sup> long-term (10 ppm) (IVL)

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.

### 9. Physical and chemical properties

Appearance: White crystalline powder  
Boiling point (°C): N/A  
Vapour pressure (mmHg at 20°C): N/A  
Specific Gravity (g/mL): N/A  
Flash Point (°C): Not flammable  
Flammability limits (%): Not flammable  
Solubility in water (g/L): Completely miscible

### 10. Stability and reactivity

Stable.

Substances to be avoided: bases, aldehydes, alcohols, halogen-halogen compounds, oxidising agents, metals, alkali hydroxides, non-metallic halides, ethanolamine.

### 11. Toxicological information

After inhalation of vapours: may cause irritation symptoms in the respiratory tract, may lead to the formation of oedemas.

After ingestion: May cause burns in oesophagus and stomach mouth, may cause gastric spasms, bloody vomiting, dyspnoea.

Possible risk of perforation in the oesophagus and stomach.

After skin contact: May cause burns.

After eye contact: May cause burns.

### 12. Ecological information

Do not allow to enter drinking water supplies, waste water or soil.

### 13. Disposal considerations

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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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