

	<p style="text-align: center;"><b>MSDS</b> Material Safety Data Sheet</p>	<p>Document No.: MSDS013 Version No.: 02 Effective Date: 25 Aug 2011</p>
<p><b>Chromium (VI) Standard or Plating Solution</b></p>		

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

Product Name: Chromium (VI) Standard or Plating Solution

Product number: R-300-20STCR-01, R-100-51STCR-01, R-300-025PLA-CR, R-100-051PLA-CR

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

Telephone: +44 (0) 1223 420311

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

**2. Composition/information on ingredients**

Product name: Chromium (VI) Standard 20ppm, Chromium (VI) Standard 1ppm or Chromium Plating Solution

CAS number: none                      EC number: none

<u>Hazardous Ingredients</u>	<u>Proportion</u>	<u>CAS-No</u>	<u>EC-No</u>
Chromium (VI) Symbol: T	<0.1%	7744-47-3	231-157-5

R-phrases: R49-46-43

May cause cancer by inhalation. May cause heritable genetic damage. May cause sensitization by skin contact.

**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.

**Chromium (VI) Standard or Plating Solution**

**6. Accidental release measures**

Wear protective clothing when dealing with spills. Dispose of in accordance with local regulations.

**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. Do not empty into drains.

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:

Chromium compounds (as Cr): 0.05 mg/m<sup>3</sup> long-term (MEL)

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 Yellow 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

**10. Stability and reactivity**

Stable

**11. Toxicological information**

The following applies to soluble Chromium(VI) compounds:

After inhalation: burns. Possible allergic reactions of the airways (risk of pneumonia) and damage to the nasal mucous membranes (under certain circumstances, risk of septum perforation).

After skin contact: burns. Penetration of the substance into wounds causes poorly healing ulcers. In sensitive persons the substance easily causes sensitization.

After contact with eyes: burns.

After swallowing: severe pain in the gastrointestinal tract.

Systemic effects: absorption can lead to kidney and liver damage.

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**12. Ecological information**

No data available.

**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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