

MATERIAL SAFETY DATA SHEET

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

Product Name: Chromium (VI) Standard (20mg/L Cr (VI)) or Plating Solution (20mg/L Cr (VI))

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

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2. Composition/information on ingredients

Product name: Chromium (VI) Standard (20mg/L Cr (VI)) or Plating Solution (20mg/l Cr (VI))

CAS number: none

EC number: none

Hazardous Ingredients

Proportion

CAS-No

EC-No

Chromium (VI)

<0.1%

7744-47-3

231-157-5

Symbol: T

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.

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): 0.05mg/m³ 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.

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

This product contains less than 0.1% of the following ingredient.

CHROMIUM, T (Toxic)

UN no: 2922, Class 6.1

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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