

OVA Bismuth Plating Solution 100 mg/L

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

Product Name: Bismuth Plating Solution (100 mg/L Bi)

Product number: R-100-001PLA-BI

company: Cogent Environmental Ltd
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Cambridge
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UK

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2. Composition/information on ingredients

Product name: Bismuth Plating Solution (100 mg/L Bi in Acetate Buffer.)

CAS number: none

EC number: none

<u>Hazardous Ingredients</u>	<u>Proportion</u>	<u>CAS-No</u>	<u>EC-No</u>
Acetic acid	<1%	64-19-7	200-580-7

Symbol: C

R-phrases: R10, 35

Flammable. Causes severe burns.

3. Hazards identification

Non 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

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. Absorb spills with sand or vermiculite. Dispose of in accordance with local regulations.

OVA Bismuth Plating Solution 100 mg/L**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.

8. Exposure controls and personal protection

UK Exposure Limits:

Acetic acid: 37 mg/m³ Short term (15 ppm) & 25 mg/m³ 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). 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: 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

10. Stability and reactivity

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

11. Toxicological information

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.

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

12. Ecological information

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

13. Disposal considerations

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



MSDS

Material Safety Data Sheet

Document No.: MSDS035
Version No.: 01
Effective Date: 19 Jan 2009

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14. Transport information

This product contains less than 1% of the following ingredient
ACETIC ACID, C (corrosive)
UN no: 2789, Class 8

Non – Hazardous for air, road and sea transport.

15. Regulatory information

Non - hazardous for air, road or sea transport

16. Other information

None

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