Safe Operating Procedure for OmniCoat

Chemical Name OmniCoat

Author Yifei Yuan Date January 24, 2023

Description Adhesion promoter

Hazards GHS02 Flame: Flam. Liq. 3 H226 Flammable liquid and vapor

GHS07: Skin Irrit. 2 H315 Causes skin irritation

Eye Irrit. 2A H319 Causes serious eye irritation

Required precautions

PPE Wear protective gloves/protective clothing/eye protection/face protection.

First Aid precautions

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact: Wash eyes immediately with a large amount of water or normal saline, occasionally lifting upper and lower eye lids until no evidence of chemical remains (about 20 minutes). Remove contact lenses if present and easy to remove. Seek immediate medical attention.

After swallowing: Do not induce vomiting unless instructed to do so by a physician. Wash out mouth with water and keep person at rest. Seek immediate medical attention.

Information for doctor: Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

Work Location precautions Ensure good ventilation/exhaust at the workplace.

Procedure

- Nitrile gloves, eye protection, and goggles must be worn at all times.
- Wear chem resistant gloves and faceshield to open the container and dispensing the material.
- Use OmniCoat as adhesion promoter to combine a glass board and an Al layer and a sacrificial layer to remove the glass board finally.
- Processing Guidelines
    - Dispense 1–4 ml (depending on substrate diameter) of OmniCoat (make sure the vent arm and the spinner across from each other)
    - Spin coat: 500 rpm for 5 seconds with acceleration of 100 rps 3000 rpm for 30 seconds with acceleration of 300 rps on a glass board. Bake it on a 200°C hot plate for 1 minute, and allow them to cool to room temperature. Spin coat OmniCoat on a glass board (make sure the vent arm and the spinner across from each other
    - PLASMA PROCESSING OF THIS MATERIAL SHOULD NOT BE DONE IN G2N. Wet removal (MCC 101A Developer): immerse for one minute with agitation. Rinse with DI water for 2 minutes

- Wet removal (MicropositTM MF-319): immerse for 30 seconds with agitation. Rinse with DI water for 2 minutes. (Other developers can be used. The process must be adjusted for different developer formulations.)

- Wear chem resistant gloves and faceshield to close the container.
- Wear chem resistant gloves and faceshield to remove OmniCoat.

Storage Storage cabinet under the spin coating. (Do not use product after the expiration date (13 months).)

Disposal

- Clean up Wearing the chem resistant gloves and goggles to wipe surfaces in the spinner with clean room wipes. Place contaminated wipes in the Noxious chemicals beaker at the back of the Etch Room wet bench. Allow volatile materials to evaporate completely. When the wipes are dry empty the solid waste into a garbage bag inside the wet bench. Close and seal ('tie off') the garbage bag. Remove the garbage bag and place it for collection with the regular garbage. Wearing the chem resistant gloves and goggles to clean the beaker for OmniCoat by DI water at least 5 min and place it in the wet bench for drying.
- Disposal of chemical waste Place the labeled waste container in the blue bin at the end of room 1134 for disposal at the chemical waste facility.

Special instructions, warnings