Antimony trisulfide precursor solution

<table>
<thead>
<tr>
<th>Product</th>
<th>Antimony trisulfide precursor solution</th>
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<tbody>
<tr>
<td>Manufacturer</td>
<td>Components manufactured by Fisher Scientific; mixed in user's lab.</td>
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<tr>
<td>Composition</td>
<td>35.9 wt.% carbon disulfide, 30.3 wt.% ethanol, 28.1 wt.% n-butylamine, 5.7% antimony trioxide; liquid</td>
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Synonyms

Typical Uses
Spin-on material for Sb₂S₃ direct patterning

Hazards
Serious eye damage/eye irritation: CATEGORY 1; Specific target organ toxicity – repeated exposure (liver, kidney, cardiovascular system); Skin corrosion/irritation: CATEGORY 1A; Reproductive toxicity: CATEGORY 2; Carcinogenicity: CATEGORY 2; Flammable liquids: CATEGORY 2; Acute toxicity: CATEGORY 3 (dermal); Acute toxicity (inhalation - dusts and mists); Specific target organ toxicity – single exposure (respiratory system); Specific target organ toxicity – single exposure (central nervous system); Acute toxicity (oral); Acute toxicity (inhalation - vapours)

Storage
Not stored at nanoFAB (kept in user's lab and brought to cleanroom for processing).

Disposal
Seal all waste (including foil liners, pipettes, cleanroom wipes, etc.) in a large Ziploc bag, and dispose of in red organic sharps waste pail in secondary litho area. Ziploc bags are provided in the cabinet at the end of the wet aisle table, opposite the resist fridges. Liquid developer waste (IPA) and rinses may be dumped into solvent waste cup sinks or bottles.

Comments
All spin-coating and soft-baking must occur in Aisle 1 fumehood, with the sash kept as closed as possible. Must be spun on in foil-lined Headway spinner and fully soft-baked on a foil-lined hot plate in the fumehood. Use a disposable glass pipette to transfer precursor to specimen when spin-coating. May be exposed in the Nanoscribe PPGT+ (oil immersion mode or 20× air objective only: no immersion (DILL) mode allowed) or Heidelberg MLA150. All developing must be done in user-owned dedicated glassware (no common glassware allowed), cleaned and stored in user's cleanroom locker or lab.

Status
RESTRICTED USE

Check First
Please contact a nanoFAB staff member for uses not listed above.

Additional information