

Template for usage policy of new chemical

IITBNF Safety team

Usage policy of chemical for Methyl Acetate

- **Experimental overview**

We used $\text{CH}_3\text{NH}_3\text{Br}$ (MABr) with PbBr_2 in DMSO solvent and spin coat a thin film inside the glove box. (NOTE: these are lead based materials not allowed to do process outside the glove box) These are applicable in LEDs and solar cells. Spincoated perovskite thin film dipping in Methyl acetate for better thin film quality

- **Details of chemicals used along with the chemical applied for clearance (if any)**

MABr, MAI, MAcl, PbBr_2 , PbCl_2 and PbI_3 , FABr, CsBr

- **Procedure**

Chemical storage and solution preparation inside the GB-3. after that we spincoat the materials on substrate inside the GB. For metal deposition, spin-coated perovskite thin film transfer in GB-2 for electrode deposition. User can use these materials only in OE Lab. Deposition process not allowed any other lab of CEN

- **Place where experiment will be carried out**

GB-3 (this glove box dedicated for lead perovskite materials only)

- **Precautionary measures**

Lead contaminated gloves, tips and Al foil discard in separate dustbin (we have separate dustbin in OE Lab) and avoid this chemical from spark, hot surface

after complete the process please wash hands with soap water