

PVC USAGE POLICY

Dr. Madhuri Vinchurkar

Mrs. Rajul Patkar

Mr. Minoj G Seelan

Faculty in-charge- Prof. V. Ramgopal Rao.

NFPA Rating: Health: 0; Flammability: 1; Instability: 0

HEALTH HAZARDS

- PVC particles may cause irritation of the eyes.
- PVC particles may cause mechanical irritation or moderate allergic dermatitis.
- May cause respiratory irritation.

MATERIALS TO AVOID

Avoid contact with acetal or acetal copolymers and amines (derivates of ammonia).

CONDITIONS TO AVOID

Avoid all possible sources of ignition, heat and flames.

OPERATING PROCEDURE

7 mg of Poly vinyl chloride will be dissolved in 1 ml of solvent (tetrahydrofuran) and 0.5 μ l of the solution will be drop casted onto a substrate. This process will be done using nano dispenser in the Bio sensors lab.

PERSONAL PROTECTION

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Use air purifying dust or mist respirator.

FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin: Flush skin with soap water.

Ingestion: Ingestion of this product under normal conditions does not contribute to any known adverse health effects. If large amounts are ingested get medical attention. If large amounts are ingested get medical attention.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

FIRE FIGHTING MEASURES

GENERAL INFORMATION

As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear.

EXTINGUISHING MEDIA

Use water spray, dry chemical, carbon dioxide, or alcohol resistant foam. Use agent most appropriate to extinguish fire.

USERS

Dr. MadhuriVinchurkar(madhurusuvarn@ee.iitb.ac.in)

Mrs. RajulPatkar(rajul@ee.iitb.ac.in)

Mr. MinojG Seelan(minoj@ee.iitb.ac.in)

REFERENCES

- 1) <http://www.sigmaaldrich.com/catalog/product/aldrich/81388?lang=en®ion=IN>
- 2) www.shintechinc.com/documents/shintech_pvc_msds9222011.pdf