

18 CROWN 6 USAGE POLICY

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NFPA Rating: Health: 2 Flammability: 0; Instability: 0

HEALTH HAZARDS

- May cause eye irritation.
- May cause skin irritation.
- May cause irritation of the digestive tract.
- May cause respiratory tract irritation.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide and carbon dioxide

MATERIALS TO AVOID

Strong oxidising agents and strong acids.

PERSONAL PROTECTION

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

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 plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cups of milk or water. Wash mouth out with water.

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution.

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

OPERATING PROCEDURE

- 1) 1 mg of 18 crown 6 will be dissolved in 1 ml of THF and 0.5 μ l of the solution will be drop casted into a film on a substrate. This process will be done using nanodispenser in the Bio sensors lab.
- 2) 1 mg of 18 crown 6 will be mixed with a 3 mg of polymer(PVC) in 1 ml of solvent(THF) and 0.5 μ l of the solution will be drop casted on a substrate. This process will be done using nanodispenser in the Bio sensors lab.

USERS

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REFERENCES

1) www.sigmaaldrich.com/catalog/product/aldrich/274984?lang=en®ion=IN

2) www.glue.umd.edu/~choi/MSDS/Sigma-Aldrich/18-CROWN-6.pdf